

019. OF FISHES

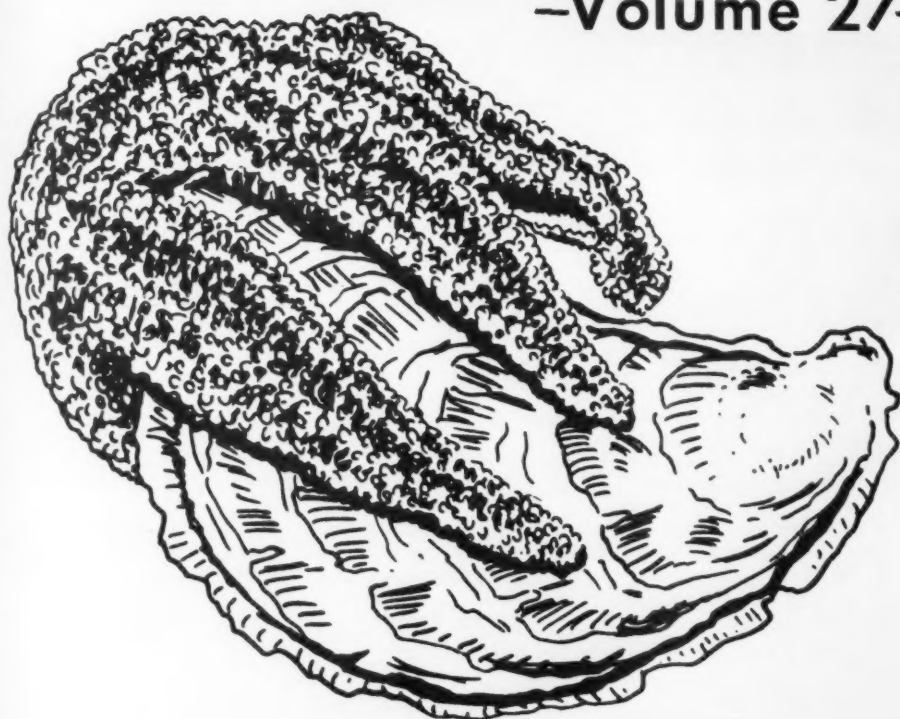
*Museum*

# COMMERCIAL FISHERIES REVIEW

LIBRARY

## INDEX for 1965

### -Volume 27-



DEPOSITED BY THE  
UNITED STATES OF AMERICA

**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**Fish and Wildlife Service**  
**Bureau of Commercial Fisheries**  
**Washington, D.C.**



DEPOSITED BY THE  
UNITED STATES OF AMERICA

UNITED STATES  
DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, SECRETARY

FISH AND WILDLIFE SERVICE

CLARENCE F. PAUTZKE, COMMISSIONER

BUREAU OF COMMERCIAL FISHERIES

DONALD L. MCKERNAN, DIRECTOR

DIVISION OF RESOURCE DEVELOPMENT

RALPH C. BAKER, ASST. DIRECTOR



# COMMERCIAL FISHERIES REVIEW



A review of developments and news of the fishery industries  
prepared in the BUREAU OF COMMERCIAL FISHERIES.

Joseph Pileggi, Editor

G. A. Albano and H. Beasley, Assistant Editors

Address correspondence and requests to the: Chief, Fishery Market News Service, U.S. Bureau of Commercial Fisheries, 1815 North Fort Myer Drive, Room 510, Arlington, Va. 22209.

Publication of material from sources outside the Bureau is not an endorsement. The Bureau is not responsible for the accuracy of facts, views, or opinions contained in material from outside sources.

Although the contents of the publication have not been copyrighted and may be reprinted freely, reference to the source is appreciated.

Use of funds for printing this publication has been approved by the Director of the Bureau of the Budget, May 1, 1963.

5/31/68

An index of Volume 27, Numbers 1 through 12, issued in 1965. It is a subject index, with an author index for only the feature articles in each monthly issue. Indexing of other material is based on the principal subject with some cross-reference. The use of " " in entries denotes the omission (repetition) of the major subject heading which appears in ALL CAPS.

Actions in Congress affecting or of interest to commercial fisheries are indexed only once by subject under the general heading: "CONGRESS, EIGHTY-NINTH (First Session)," i.e., there is no cross-reference indexing of those entries.

Publications listed in the "Recent Fishery Publications" section have not been indexed.



Editorial Assistants--Jean Zalevsky, Mary Donaldson

Compositor--Mary Donaldson

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF FISHERIES  
WASHINGTON, D. C.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF FISHERIES  
WASHINGTON, D. C.

Museum  
SH  
11  
A47  
v.27

# COMMERCIAL FISHERIES REVIEW



A REVIEW OF THE COMMERCIAL FISHERIES OF THE UNITED STATES  
PUBLISHED BY THE BUREAU OF FISHERIES

WASHINGTON, D. C.

ADDITIONAL INFORMATION: This review is the result of a study made by the Bureau of Fisheries, U. S. Department of the Interior, for the purpose of determining the status of the commercial fisheries of the United States, and of the extent to which they are being depleted. It is based on the information furnished by the various State and Federal agencies, and on the results of the investigations made by the Bureau of Fisheries. It is published for the purpose of making the public acquainted with the present condition of the fisheries, and of the measures being taken to conserve them.

The review of the commercial fisheries of the United States is a subject of great importance, and one which has attracted the attention of the public for many years. It is a subject which has been the subject of many investigations, and the results of which have been published in many reports. The purpose of this review is to present a summary of the present condition of the fisheries, and of the measures being taken to conserve them. It is based on the information furnished by the various State and Federal agencies, and on the results of the investigations made by the Bureau of Fisheries. It is published for the purpose of making the public acquainted with the present condition of the fisheries, and of the measures being taken to conserve them.





## INDEX TO VOLUME 27 (NUMBERS 1 - 12 INCLUSIVE)--1965

The reference gives the month and the page number.

## ABALONE

## Australia:

developments in 1963/64 fishery season; Apr. p. 60.  
fishery promising; Apr. p. 59.  
fishery trends; Nov. p. 48.

California, observations and growth studies by M/V "Mollusk"; Mar. p. 25.

## AFRICA

California firm gets guarantees from AID for \_\_\_\_\_ projects; Sept. p. 80.

French-speaking nations discuss administration and planning for fisheries development; June p. 39.  
Japanese stern trawler to fish off west \_\_\_\_\_; Feb. p. 69.

## Tuna:

Japanese fishing company officials observe new purse-seine operation off \_\_\_\_\_; Feb. p. 63.  
Japanese purse-seine fleet arrives in \_\_\_\_\_; Jan. p. 75.

## AFRICA, EAST

United Nations Special Fund development project to aid fresh-water fisheries in; May p. 57.

## AFRICA, WEST

Fish meal and oil industry outlook and general fisheries situation; Feb. p. 82.

## AGAR-AGAR

Denmark's production and exports, 1963; Apr. p. 68.  
Japan's export target for fiscal year 1965; July p. 80.

## AGENCY FOR INTERNATIONAL DEVELOPMENT

Brazil, fresh-water fisheries development assisted by \_\_\_\_\_; Apr. p. 61.

California firm gets guarantees from \_\_\_\_\_ for African projects; Sept. p. 80.

Chilean cooperatives, loan to help bank for; Oct. p. 101.

Investment survey in Brazil and Argentina sponsored by \_\_\_\_\_; Apr. p. 61.

## Somali Republic:

loan approved by \_\_\_\_\_ for fisheries venture in; Jan. p. 86.

fisheries venture with U. S., extended risk and equity guaranty by \_\_\_\_\_ for; May p. 86.

## AGRICULTURE, DEPARTMENT OF

Oyster planters, Louisiana, Farmers Home Administration emergency loans for hurricane damage to; Dec. p. 84.

Food consumption index, per capita, revised by \_\_\_\_\_; Jan. p. 25.

## AIR-BUBBLE CURTAIN

Norwegian experiments prove effective; Sept. p. 73.

## AIR FREIGHT

Northwest fishery shipments to eastern points, airline cuts rates 40 percent on; Dec. p. 44.

## AIRPLANE SPOTTING

## California:

pelagic fish population survey; Mar. p. 22, Apr. p. 16, Aug. p. 26.

## AIRPLANE SPOTTING

## California:

sport fish, marine, survey off southern coast continued; Oct. p. 25.

Japanese fish spotting and hydrographic observations, aircraft to be used for; June p. 63.

## AIR TRANSPORTATION

Imports of fishery products by \_\_\_\_\_, U. S.; Jan. p. 51, Feb. p. 43, Mar. p. 56, Apr. p. 40, May p. 46, Sept. p. 48, Dec. p. 45.

Trout, rainbow, fingerlings planted in western lake by airplane; Dec. p. 111.

## ALABAMA

Landings and fishery trends, 1964; Nov. p. 13.

## ALASKA

Bering Sea, Japanese bottomfish catches in 1964; Jan. p. 17.

Bottomfish fishery in Gulf of Alaska, Japanese gill-net; Dec. p. 1.

## Crab:

Dungeness production, 1964; June p. 15.

## king:

Bering Sea, Japanese research in; Oct. p. 21.  
catch at record high in 1964; Mar. p. 17, June p. 15.

harvest at Kodiak and westward, Oct. 1964; Jan. p. 17.

industry board named by Governor; Nov. p. 14.  
Kodiak, two new plants in operation in; May p. 11.

tag returns from Kodiak Island area; Aug. p. 22.  
U.S.S.R.:

factoryship off \_\_\_\_\_ violates U. S.-Soviet fishing agreement; Aug. p. 23.

ratifies agreement on fishing gear in areas off Kodiak; Feb. p. 51.

scientists observe U. S. research; Oct. p. 21.  
Soviet and Japanese vessels visited by U. S. biologists; Sept. p. 16.

processing firm in \_\_\_\_\_, Small Business Administration approves loan for; May p. 99.

Earthquake caused history's greatest uplift; Apr. p. 126.

Fisheries highlights, 1963; Mar. p. 18.

## Fishing industry:

modernization conference planned; Aug. p. 21.  
new, for Unalakleet; Sept. p. 18.

Foreign fishing activity off \_\_\_\_\_; Jan. p. 16, Feb. p. 14, Mar. p. 17, Apr. p. 12, May pp. 1, 11, June p. 14, July p. 15, Aug. p. 20, Sept. p. 16, Oct. p. 19, Nov. p. 14, Dec. p. 22.

## Gulf of \_\_\_\_\_:

bottom trawling surveys in northeastern part (summer and fall of 1961 and spring of 1962); Sept. p. 1.

## Japanese:

firm to use larger trawler for fishery; Sept. p. 68.  
trawler operation ends; Nov. p. 64.

trawlers, 11 large, to fish in 1965; May p. 74.  
trawl fleets, 11, licensed to fish; Aug. p. 78.

## trawling:

licenses in 1965; Apr. p. 73.  
limitations on; Oct. p. 82.

operations; Jan. p. 79.

## ALASKA (cont.)

## Gulf of \_\_\_\_\_ (cont.):

## U.S.S.R.:

Far Eastern Province of Sakhalin expands catch by fishing in; Apr. p. 88.  
fishery research in; Apr. p. 86.

## Herring:

catch analyzed by computer; Jan. p. 17.  
fishery in 1965 down sharply; Nov. p. 17.  
Japanese firm interested in \_\_\_\_\_ products; May p. 12.

southeastern fishery; Feb. p. 15, Aug. p. 1.

Indian commercial fishing regulations in \_\_\_\_\_ Annette Islands Reserve, changes proposed in; Jan. p. 103.

## Japanese:

fishing activities off \_\_\_\_\_; Jan. p. 16, Feb. p. 14, Mar. p. 17, Apr. p. 12, May pp. 1, 11, June p. 14, July p. 16, Aug. p. 20, Sept. p. 17, Oct. p. 20, Nov. p. 15, Dec. p. 23.  
groundfish catches in Gulf of \_\_\_\_\_; Aug. p. 22.  
U. S. firm to process fish in \_\_\_\_\_, plans for; Aug. p. 23.

Kelp and herring roe harvest; July p. 17, Sept. p. 18.

## Landings:

estimated for 1964; June p. 15.

fishery, 1962-1963; Mar. p. 18.

Legislative actions affecting fisheries; Apr. p. 37.

Pesticides program, new, started; Aug. p. 23.

Processed fishery products, 1963; Mar. p. 19.

Processing plant, new, at Homer; Dec. p. 24.

Rockfish potential, large, seen off southeast \_\_\_\_\_; Aug. p. 24.

## Salmon:

## Bristol Bay:

good run forecast for 1965; Apr. p. 12.  
runs near record in 1965; Oct. p. 18.  
sockeye distribution pattern studied; Oct. p. 18.  
caviar industry developing; Oct. p. 21.  
fishing season about over for 1965; Nov. p. 17.  
pink fail to select best spawning sites; Mar. p. 19.  
Prince William Sound runs affected by 1964 earthquake; Apr. p. 13.  
red, workshop held; Aug. p. 22.  
resource makes \_\_\_\_\_ a real bargain; Feb. p. 112.  
vessels, fishing, loan applications for; Dec. p. 84.  
Yukon River smolt outmigration chronology study; Aug. p. 22.

Sea otter populations may be transplanted to more accessible site; Jan. p. 97.

## Seals:

fur, prices for skins at spring 1965 auction; June p. 21.

hair, skins from \_\_\_\_\_ included in Danish auction of Greenland seal skins; Mar. p. 73, June p. 52.

## Shrimp:

cannery, new floating, for \_\_\_\_\_; Aug. p. 22.

## pink:

growth rate in Auke Bay; Aug. p. 23.  
survey off southeastern \_\_\_\_\_; Feb. p. 14.  
vertical migrations; Nov. p. 17.  
processing operations at Kodiak increase; May p. 11.  
production, 1964; June p. 16.

Soviet fishing activities off \_\_\_\_\_; Jan. p. 16, Feb. p. 14, Mar. p. 17, Apr. p. 12, May pp. 1, 11, June p. 14, July p. 15, Aug. p. 20, Sept. p. 16, Oct. p. 19, Nov. p. 14, Dec. p. 22.

## ALASKA

Transport fish and other cargo in steamship trade between \_\_\_\_\_ and Washington State, special "van-ships" and "trailerships"; May p. 40.

## ALASKA FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

Bottomfish resources off southeast Alaska studied

(M/V "John R. Manning"); Sept. p. 18.

Rockfish potential, large, seen off southeast Alaska

(M/V "John R. Manning"); Aug. p. 24.

Shrimp and bottomfish resources off southeast Alaska studied (M/V "Commando"); Sept. p. 19, Dec. p. 24.

Shrimp and king crab resources studied (M/V "John R. Manning"); Dec. p. 25.

## ALASKA FISHERIES EXPLORATIONS AND GEAR RESEARCH

Gear-marking devices for use with shipboard radar, tests of; Feb. p. 14.

## ALASKA FISHERY INVESTIGATIONS

## Crab, king:

abundance observed by SCUBA divers; Apr. p. 13.  
study reveals unusual "stacking" behavior of juveniles; Nov. p. 18.

## Salmon:

branding technique tested on sockeye; Oct. p. 51.

earbones reveal age in study of sockeye run to

Karluk Lake; Nov. p. 18.

Karluk migrations delayed in 1965; Sept. p. 19.

## pink:

embryos, sea water may accelerate development of; Jan. p. 18.

low abundance of northern southeastern young; Dec. p. 26.

migration patterns of juveniles in 1965; Oct. p. 21.  
spawning beds unstable after earthquake; Jan. p. 18.

studies on migrations during 1964; Jan. p. 18.

transplant at Little Port Walter successful; July p. 17.

winter survival of eggs; July p. 17.

## red:

fry survival at Brooks Lake; July p. 17.

Karluk run increases in 1964; Jan. p. 18.

Naknek smolt run, record, shows changes in pattern; Sept. p. 19.

## Shrimp:

life history studies; Nov. p. 17.

pink, vertical movements of; Dec. p. 26.

## ALASKA, GULF OF (see ALASKA)

## ALEUTIAN ISLANDS

Salmon mortality and gill-net dropout studies in \_\_\_\_\_ area by M/V "George B. Kelez," "Yaquina," "Paragon"; July p. 38.

## ALEWIFE

Great Lakes, coho salmon and striped bass introduction may help control \_\_\_\_\_ populations; Dec. p. 32.

## Lake Michigan:

population continues to increase; Aug. p. 38.

seasonal distribution and abundance studies; Jan. p. 30, July p. 22.

trawling, experimental, continued by M/V "Kaho"; Sept. p. 27.

## ALEWIFE (cont.)

Reduction process to convert raw fish into thiamine-free press cake; Dec. p. 13.

## AMERICAN FISHERIES ADVISORY COMMITTEE

Members, two new, appointed to fill vacancies; Aug. p. 24.  
Recommendations made by \_\_\_\_\_ at Washington, D. C., meeting; July p. 18.

## AMERICAN GEOGRAPHICAL SOCIETY

Oceanography, Serial Atlas of the Marine Environment published by \_\_\_\_\_; Apr. p. 31.

## AMERICAN SAMOA

## Tuna:

big-eyed, deliveries, rejections reported high for; Aug. p. 24.  
cannery workers' wage rates, hearings held on; Oct. p. 106.  
fleet operating from \_\_\_\_\_, composition of; Nov. p. 18.  
Japanese:  
assign 20 long-line vessels to \_\_\_\_\_; Dec. p. 26.  
vessel operators seek use of larger vessels at base; Jan. p. 19.  
prices; Jan. p. 18.  
transshipment to Japan; Nov. p. 19.  
vessels, more, fishing out of \_\_\_\_\_; Mar. p. 20.  
Wage order program, revised, for industries in Puerto Rico, Virgin Islands, and \_\_\_\_\_ announced; Mar. p. 100.  
Wages, industry rates, hearings held on; July p. 103, Oct. p. 106.

## ANCHOR

Norway produces folding \_\_\_\_\_; Nov. p. 70.

## ANCHOVIES

## California:

fishing regulations proposed; Oct. p. 24.  
fishing under reduction permits considered by State Fish and Game Commission; Dec. p. 27.  
plan sought for scientific management resource; Oct. p. 24.

## Chile:

catch for 1964 and outlook for 1965; Jan. p. 71.  
fish meal industry hurt by \_\_\_\_\_ shortage; May p. 63, June p. 50, Aug. p. 69.  
Peru's population of \_\_\_\_\_ presently shows no sign of depletion; Apr. p. 81.

## South Africa:

Cape west coast catch, January-March 1965; Aug. p. 93.  
experimental fishing for \_\_\_\_\_ continued off South-West Africa; June p. 76.  
fishery, August 1964; Jan. p. 89.  
fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 87, May p. 87, June p. 76, Aug. p. 93, Nov. p. 71, Dec. p. 79.

fishing regulations for \_\_\_\_\_ issued; Aug. p. 95.  
large-scale test of new fishery planned; Jan. p. 89.

## South-West Africa:

fishery, August 1964; Jan. p. 89.  
fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 88, May p. 87, June p. 76, Aug. p. 93, Nov. p. 71, Dec. p. 79.

## ANGOLA

Exports of fishery products, 1963-64; Nov. p. 46.

## ANGOLA

Fishery trends in 1965; Nov. p. 45.

## Fish meal:

industry modernization program aided by government loan; June p. 45.  
industry outlook and general fisheries situation; Feb. p. 84.  
plant; Nov. p. 45.

## Fish oil:

industry outlook and general fisheries situation; Feb. p. 84.  
production and exports, 1963-64 and outlook for 1965; July p. 60.  
Fish-processing industry, new, planned for southern region; Mar. p. 66.  
Floating laboratory; Nov. p. 45.  
Landings, production, and export trends, 1963-64; Nov. p. 45.  
Processed fishery products, production of principal, 1963-64; Nov. p. 46.  
South Africa Republic investments, fishing industry in \_\_\_\_\_ attracts; Dec. p. 50.  
U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## ANTARCTIC

## Japanese:

fishing firm plans to explore \_\_\_\_\_ waters; Dec. p. 70.  
land stations' whale oil production as of January 1965; Aug. p. 85.  
whaling fleet for 1965/66 season reduced; Aug. p. 85.  
whaling from South Georgia Island; Oct. p. 85.  
U.S.S.R. research vessel finds fishing grounds in \_\_\_\_\_ region; Oct. p. 97.

## Whaling:

Japanese fleet preseason operation out of South Georgia Island; Sept. p. 70.  
Japanese production target for 1964/65 \_\_\_\_\_ season; Jan. p. 80.

## ANTIDUMPING ACT

Regulations under \_\_\_\_\_, changes announced in; Feb. p. 91.

## APPRENTICESHIP AND TRAINING, BUREAU OF

Commercial fishermen, trainee, on-the-job training program for; Apr. p. 9.

## AQUARIUM

National Fisheries Center director named by Secretary of the Interior; Oct. p. 38.

## AQUATIC WEEDS

Carp, grass, eat \_\_\_\_\_ to aid power plant operation; Apr. p. 91.  
Cloud-making machine, portable, helps check growth of \_\_\_\_\_; Mar. p. IV.

## ARCTIC

## Oceanography:

research in \_\_\_\_\_ basin by U. S. Coast Guard; Feb. p. 29.  
study in Siberian \_\_\_\_\_, U. S. Coast Guard cutter "Northwind" completes major; Dec. p. 42.

## AREA REDEVELOPMENT ADMINISTRATION

Economic Development Administration succeeds ARA; Nov. p. 78.

## AREA REDEVELOPMENT ADMINISTRATION (cont.)

Loans, industrial and commercial, to fisheries firms as of June 30, 1964; May p. 91.  
Washington, oyster industry study to be continued in Willapa Bay; June p. 82.

## ARGENTINA

AID sponsors fishery resource investment survey in \_\_\_\_\_; Apr. p. 61.  
Fish meal and oil production and exports, 1962-64; July p. 60.  
United Nations Special Fund:  
development project to aid fisheries in \_\_\_\_\_; May p. 55.  
research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 51.  
Vessels, fishing, import charges reduced on certain; June p. 46.

## ARKANSAS

Legislative actions affecting fisheries; Apr. p. 38.

## ASIA

Landings, fishery, in 1963; Mar. p. 62.  
Mexican shrimp exports to Europe and \_\_\_\_\_ granted tax advantage; Nov. p. 68.

## ATLANTIC COAST

Shoreline, our drowned \_\_\_\_\_; Mar. p. 59.  
Tuna:  
becomes more important on \_\_\_\_\_; May p. 119.  
fishery, review of the development of \_\_\_\_\_; Mar. p. 1.

## ATLANTIC FISHERIES REGULATION

Northeast Atlantic Fisheries (Policing) Conference, plans for; Apr. p. 43.

## ATLANTIC OCEAN

Catch rate, decline forecast for trawler; Nov. p. 74.  
Clam, surf (sea), survey in \_\_\_\_\_, 1964 progress report on; Feb. p. 18.  
Cod fishery, U. S., in the northwest \_\_\_\_\_; July p. 1.  
Fishery resource survey of Caribbean and \_\_\_\_\_ by M/V "Oregon"; Jan. p. 19.  
Japan:  
firm plans to operate large trawler in northwest \_\_\_\_\_; Sept. p. 68.  
refueling of vessels at sea planned; Aug. p. 84.  
trawler, new, scheduled to fish in \_\_\_\_\_; Feb. p. 69.  
trawlers, more large, to be licensed to fish in \_\_\_\_\_; Oct. p. 86.  
trawl fishery production trends; Aug. p. 80.  
trawl operations in northwest \_\_\_\_\_; Feb. p. 69.  
Northwest:  
Polish fisheries expansion; Dec. p. 78.  
tuna and swordfish distribution studies by M/V "Delaware"; Nov. p. 27.  
Oceanography, surface currents off coast, new study on; Apr. p. 31.  
Sea birds, guide to Tropical \_\_\_\_\_; July p. 125.  
South, Gulf of Guinea surveyed by U. S. Bureau of Commercial Fisheries research vessel "Geronimo"; Jan. p. 43.  
Tuna:  
Japan:  
fishing and price trends, September 1965; Dec. p. 62.

## ATLANTIC OCEAN

Tuna:  
Japan:  
fishing trends and export prices, Feb. 1965; Apr. p. 70.  
fishing trends in \_\_\_\_\_; Feb. p. 64.  
long-line fishery trends; Sept. p. 65.  
research vessel surveys \_\_\_\_\_; Dec. p. 64.  
resources to be surveyed; Feb. p. 64.  
vessels operating in \_\_\_\_\_; Nov. p. 62.  
yellowfin fishery in the eastern tropical \_\_\_\_\_; Aug. p. 7.

## ATLANTIC STATES MARINE FISHERIES COMMISSION

Annual meeting in Miami, Fla.; Nov. p. 22.

## ATLAS OF THE MARINE ENVIRONMENT, SERIAL Oceanographic folio published by American Geographical Society; Apr. p. 31.

## ATOMIC ENERGY

Lighthouse:  
operated with \_\_\_\_\_ placed in operation in Chesapeake Bay by U. S. Coast Guard; Feb. p. 28.  
world's first nuclear-powered, in second year of operation; Sept. p. 107.

## ATOMIC ENERGY COMMISSION, U. S.

Irradiation preservation of seafood, fisheries industry invited to join study on; Aug. p. 43.  
Pacific Northwest demersal fish survey by M/V "John N. Cobb" and \_\_\_\_\_; Apr. p. 27.

## AUSTRALIA

Abalone:  
fishery in \_\_\_\_\_ promising; Apr. p. 59.  
fishery trends; Nov. p. 48.  
Canned fish import duties, new; Mar. p. 68.  
Consumption of fishery products, 1962/63 and 1963/64; Apr. p. 56.  
Eels, frozen, exported; Dec. p. 50.  
Exports:  
and imports of marine products, fiscal year 1964/65; Oct. p. 67.  
fishery products, fiscal year 1963/64; Jan. p. 63, Apr. p. 55, Aug. p. 67.  
fishery trends, July-Sept. 1964; Mar. p. 67.  
Fisheries highlights, 1963/64; Apr. p. 54.  
Fishery trends:  
South \_\_\_\_\_, 1953-64; Apr. p. 60.  
Western \_\_\_\_\_; Apr. p. 61.  
Foreign trade in fishery products, fiscal year 1963/64; Jan. p. 63.  
Funds contributed to start fish farming in Philippines; Sept. p. 57.  
Import duties, new, on canned tuna, canned salmon, and canned fish cutlets; Mar. p. 68.  
Imports:  
fishery products, 1963/64; Jan. p. 64, Apr. p. 55.  
marine products, 1963/64 and 1964/65; Nov. p. 47.  
Japan:  
research vessel to explore waters south of \_\_\_\_\_; Oct. p. 88.  
to survey waters off \_\_\_\_\_ for bottomfish resources; Feb. p. 71.  
Landings, fishery, 1963/64; Apr. p. 54.  
Lobster, spiny:  
artificial cultivation to be tried; Jan. p. 62.

## AUSTRALIA (cont.)

## Lobster, spiny (cont.):

"Barking" species netted by shrimp trawler; Aug. p. 99.

exports, production, and trends, fiscal year 1963/64; Jan. p. 61.

exports, production, and trends, fiscal year 1964/65; Nov. p. 48.

industry development spurred by foreign demand; Apr. p. 56.

prices at record high in \_\_\_\_\_; Mar. p. 67.

Sydney restaurants, product too high-priced for; May p. 58.

tails, exports drop in first 9 months of fiscal year 1964/65; Aug. p. 67.

## Marine oil:

foreign trade, fiscal years 1962/63 and 1963/64; Sept. p. 57.

imports, fiscal years 1962/63 and 1963/64; Sept. p. 57.

Papua-New Guinea (\_\_\_\_-administered Territories): fishing venture proposed with capital from \_\_\_\_\_ and Japan; Aug. p. 92.

may have fisheries potential to support a canning industry; Mar. p. 86.

Queensland fishery trends in 1964; Apr. p. 59.

## Scallops:

exports continue to grow; Apr. p. 58.

exports in first 9 months of fiscal year 1964/65; Aug. p. 67.

fishery trends, early 1965; Aug. p. 67.

shells exported to Japan; Mar. p. 68.

## Shrimp:

development of commercial fishery promising; Sept. p. 56.

exports up in first 9 months of fiscal year 1964/65; Aug. p. 67.

fishery continues to expand; Apr. p. 57.

fishery trends, early 1965; Aug. p. 67.

fishing grounds, new, productive off Queensland; Apr. p. 59.

imports soar to meet home demand; Nov. p. 47.

New Guinea survey shows commercial potential; Nov. p. 46.

North Queensland beds productive; Jan. p. 63.

resources surveyed in \_\_\_\_\_ northern waters; Jan. p. 63.

Western \_\_\_\_\_, 1965, landings down from previous season; Nov. p. 46.

## Tuna:

catch down in 1965; Aug. p. 65.

exports in first 9 months of fiscal year 1964/65; Aug. p. 67.

fishery trends; Apr. p. 52, June p. 46, Aug. p. 66.

northern waters, survey under way in; Nov. p. 46.

smoked product, new, introduced; Aug. p. 67.

survey in northern waters planned; Oct. p. 66.

survey results off Tasmania not up to expectations; Aug. p. 66.

Tasmania, survey planned for 1965 off; Apr. p. 51.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.

Vessel, new tuna, "Karina G" launched; Dec. p. 50.

Victoria fishery trends in 1963/64 season; Apr. p. 60.

Whale oil output, 1964; May p. 58.

## AUTHORS AND TITLES

ALTON, MILES S. (and Hiromu Heyamoto):

Distribution, Abundance, and Size of Sablefish (*Anoplopoma fimbria*) Found in Deep Water Off the Mouth of the Columbia River; Nov. p. 1.

## AUTHORS AND TITLES

BALKOVIC, ROBERT (and John Crum, J. Bruce Kimsey, Charles Lee, William Ellis Ripley, and Loyal G. Bouchard):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

BARRETT, A. J. (and F. J. Hightower):

Exploratory Fishing and Gear Research Buoy, An--Equipment Note No. 16; June p. 12.

BOUCHARD, LOYAL G. (and Robert Balkovic, John Crum, J. Bruce Kimsey, Charles Lee, and Wm. Ellis Ripley):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

CRUM, JOHN (and Robert Balkovic, J. Bruce Kimsey, Charles Lee, Wm. Ellis Ripley, and Loyal G. Bouchard):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

FREEMAN, JANICE (and Baruch Rosen):

Estimating Residual Shell in Shucked Soft-Shell Clams; Feb. p. 10.

FRENCH, JR., LEON E. (and Ernest D. McRae, Jr.):

An Experiment in Electrical Fishing with an Electric Field Used as an Adjunct to an Otter-Trawl Net; June p. 1.

FRENCH, ROBERT R.:

Salmon Research Cruise in the Western North Pacific; Jan. p. 46.

GILL, CHARLES D. (and Richard L. McNeely and Leonard J. Johnson):

Construction and Operation of the "Cobb" Pelagic Trawl (1964); Oct. p. 10.

GNAEDINGER, R. H.:

Reduction Process to Convert Raw Fish into Thiaminase-Free Press Cake; Dec. p. 13.

GREIG, R. A. (and H. L. Seagran):

Technical Note No. 1--A Rapid Field Method for Determining the Salt Concentration in Fresh and Smoked Chub; Dec. p. 18.

HESTER, FRANK (and John H. Taylor):

How Tuna See a Net; Mar. p. 11.

HEYAMOTO, HIROMU (and Miles S. Alton):

Distribution, Abundance, and Size of Sablefish (*Anoplopoma fimbria*) Found in Deep Water Off the Mouth of the Columbia River; Nov. p. 1.

HIGHTOWER, F. J. (and A. J. Barrett):

Exploratory Fishing and Gear Research Buoy, An--Equipment Note No. 16; June p. 12.

HITZ, CHARLES R. (and Warren F. Rathjen):

Bottom Trawling Surveys of the Northeastern Gulf of Alaska (Summer and Fall of 1961 and Spring of 1962); Sept. p. 1.

HUNTER, CHARLES J.:

Experimental Trawling for High-Seas Salmon; Feb. p. 1.

IWAMOTO, TOMIO:

Summary of Tuna Observations in the Gulf of Mexico on Cruises of the Exploratory Fishing Vessel "Oregon," 1950-63; Jan. p. 7.

JENSEN, ALBERT C. (and Harriett E. Murray):

U. S. Cod Fishery in the Northwest Atlantic, The; July p. 1.

JOHNSON, LEONARD J.:

Airlift for Harvesting Oysters, Equipment Note No. 15; Jan. p. 15.

JOHNSON, LEONARD J. (and Richard L. McNeely and Charles D. Gill):

Construction and Operation of the "Cobb" Pelagic Trawl (1964); Oct. p. 10.



## AUTHORS AND TITLES (cont.)

KHANDKER, N. ALAM:

Some Observations on the Distribution of Penaeid Shrimp in Eastern Venezuela; July p. 12.

KIMSEY, J. BRUCE (and Robert Balkovic, John Crum, Charles Lee, Wm. Ellis Ripley, and Loyal G. Bouchard):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

KRAUTHOFF II, LOUIS C.:

Trade Expansion Act and the Kennedy Round, The; May p. 7.

LEE, CHARLES (and Robert Balkovic, John Crum, J. Bruce Kimsey, Wm. Ellis Ripley, and Loyal G. Bouchard):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

LEGUEN, J. C. (and F. Poinard and J. P. Troade):

Yellowfin Tuna Fishery in the Eastern Tropical Atlantic, The (translation); Aug. p. 7.

LONGHURST, ALAN R.:

Shrimp Potential of the Eastern Gulf of Guinea; Nov. p. 9.

MCNEELY, RICHARD L. (and Leonard J. Johnson, and Charles D. Gill):

Construction and Operation of the "Cobb" Pelagic Trawl (1964); Oct. p. 10.

McRAE, JR., ERNEST D. (and Leon E. French, Jr.): An Experiment in Electrical Fishing with an Electric Field Used as an Adjunct to an Otter-Trawl Net; June p. 1.

MURRAY, HARRIETT E. (and Albert C. Jensen): U. S. Cod Fishery in the Northwest Atlantic, The; July p. 1.

MURRAY, JOHN J.:

On-the-Job Training Program for Trainee Commercial Fishermen; Apr. p. 9.

NAAB, RONALD C.:

Soviet and Japanese Fishing Activity Off Alaska in 1964; May p. 1.

NISHIMOTO, JIRO (and George K. Tanonaka):

Japanese Gill-Net Fishery for Bottomfish in the Gulf of Alaska, A; Dec. p. 1, correction Feb. (1966) p. 105.

PEASE, NORMAN L.:

Exploratory Fishing for Spiny Lobsters, Sand Lobsters, and Scallops in Panama; Apr. p. 1.

POINSARD, F. (and J. C. Leguen and J. P. Troade):

Yellowfin Tuna Fishery in the Eastern Tropical Atlantic, The (translation); Aug. p. 7.

RATHJEN, WARREN F. (and Charles R. Hitz):

Bottom Trawling Surveys of the Northeastern Gulf of Alaska (Summer and Fall of 1961 and Spring of 1962); Sept. p. 1.

RIPLEY, WM. ELLIS (and Robert Balkovic, John Crum, J. Bruce Kimsey, Charles Lee, and Loyal G. Bouchard):

Brief Review of the Fresh-Water Fishery Resources of Northeast Brazil; Mar. p. 68.

ROGERS, STEPHEN H.:

Herring Fishery in Southeastern Alaska; Aug. p. 1.

ROITHMAYR, CHARLES M.:

Review of Industrial Bottomfish Fishery in Northern Gulf of Mexico, 1959-62; Jan. p. 1.

RONSVALLI, LOUIS J. (and J. W. Slavin):

Pasteurization of Fishery Products with Gamma Rays from a Cobalt-60 Source; Oct. p. 1, correction Feb. (1966) p. 105.

## AUTHORS AND TITLES

ROSEN, BARUCH (and Janice Freeman):

Estimating Residual Shell in Shucked Soft-Shell Clams; Feb. p. 10.

SEAGRAN, H. L. (and R. A. Greig):

Technical Note No. 1--A Rapid Field Method for Determining the Salt Concentration in Fresh and Smoked Chub; Dec. p. 18.

SLAVIN, J. W. (and Louis J. Ronsivalli):

Pasteurization of Fishery Products with Gamma Rays from a Cobalt-60 Source; Oct. p. 1, correction Feb. (1966) p. 105.

TANONAKA, GEORGE K. (and Jiro Nishimoto):

Japanese Gill-Net Fishery for Bottomfish in the Gulf of Alaska, A; Dec. p. 1, correction Feb. (1966) p. 105.

TAYLOR, JOHN H. (and Frank Hester):

How Tuna See a Net; Mar. p. 11.

TROADEC, J. P. (and J. C. LeGuén and F. Poinard):

Yellowfin Tuna Fishery in the Eastern Tropical Atlantic, The (translation); Aug. p. 7.

WILSON, PETER C.:

Long-Line Gear Improvement - Aluminum Crimping Sleeve Prevents Hook Damage by Electrolysis, Equipment Note No. 17; Aug. p. 19.

WILSON, PETER C.:

Review of the Development of Atlantic Coast Tuna Fishery; Mar. p. 1.

WISE, J. P.:

(Translator of) Yellowfin Tuna Fishery in the Eastern Tropical Atlantic, The; Aug. p. 7.

## BAHAMA ISLANDS

Fishery resource potentials in southern \_\_\_\_\_ area explored by M/V "Oregon"; Sept. p. 43.

Swordfish long-lining in \_\_\_\_\_ area tested by M/V "Oregon"; Oct. p. 52.

## BALLOONS

Fish spotting with \_\_\_\_\_ tested; May p. 18.

## BALTIC SEA

Salmon conservation agreement between Denmark, Sweden, and West Germany; Nov. p. 44.

## BARBADOS

Shrimp fishery trends, 1964; July p. 60.

## BARNACLE(S)

Larvae, Gulf of Maine studies in relation to sardine feed; July p. 36.

## BEHAVIOR

Porpoise, spinner, gyrations filmed as aid to marine-animal \_\_\_\_\_ studies; Apr. p. 125.

Sounds or noises made by fish; June p. 90.

Tuna:

skipjack \_\_\_\_\_ study conducted by U. S. Bureau of Commercial Fisheries; July p. 20.

skipjack transport techniques for live fish aid \_\_\_\_\_ studies; Aug. p. 29.

studies on \_\_\_\_\_ aid to U. S. fishing industry; May p. 41.

## BELGIUM

Polish:

fish-freezing base established at Ostend; May p. 86.  
freezer trawlers land frozen cod fillets at Ostend; May p. 85.

## BELGIUM-LUXEMBOURG

Import tariff quotas for selected fishery products granted \_\_\_\_\_ by European Common Market; June p. 39.

## BERING SEA

## Bottomfish:

## Japan:

factoryship operation ends; Nov. p. 64.  
fishery trends; Jan. p. 78.  
fleet, composition of; Mar. p. 80.  
North Pacific-\_\_\_\_\_, catch trends in; Sept. p. 68.

## Crab, king:

## Japan:

factoryships to reach target mid-August; Oct. p. 82.  
production quota, government arbitrates allocation of; Mar. p. 80.  
research in \_\_\_\_\_; Oct. p. 21.  
vessels visited by U. S. biologists; Sept. p. 16.  
Soviet vessels visited by U. S. biologists; Sept. p. 16.  
U. S.-Japan agreement on fishing in eastern \_\_\_\_\_; Feb. p. 51.  
U. S.-Japanese talks concluded on fishing in eastern \_\_\_\_\_; Jan. p. 26.

## Japan:

## bottomfish:

catches in \_\_\_\_\_ in 1964; Jan. p. 17.  
fleets, three, sailed in May for Eastern \_\_\_\_\_; Aug. p. 79.  
Mothership Association submits recommendations on North Pacific-\_\_\_\_\_ fishery; Feb. p. 68.  
fishery:  
activities in \_\_\_\_\_; May p. 75.  
operations in the \_\_\_\_\_, Dec. 1964; Feb. p. 68.  
trends; Dec. p. 68.  
fishing plans in \_\_\_\_\_; July p. 75.  
fishing trends; Oct. p. 84.  
fish meal production target for 1965; June p. 61.  
trawler fleets depart for \_\_\_\_\_; Mar. p. 81.  
vessel, fishing, operations in \_\_\_\_\_; June p. 60.

## Salmon:

## Japan:

mothership fishing ends; Oct. p. 82.  
mothership fleet composition and catch quota for 1965; July p. 73.  
North Pacific-\_\_\_\_\_, catch trends in; Sept. p. 68.  
Shrimp, Japanese fishery trends; Sept. p. 68.

## U.S.S.R.:

Far Eastern Province of Sakhalin expands catch by fishing in \_\_\_\_\_; Apr. p. 88.  
fishery research in \_\_\_\_\_; Apr. p. 86.  
trawling, deep-water, tests in \_\_\_\_\_ result in good catches; Apr. p. 86.

## Whaling:

## Japan:

operations in \_\_\_\_\_; Oct. p. 84.  
trends in 1965; Oct. p. 83.

## BIRDS

Sea \_\_\_\_\_, guide to Tropical Atlantic; July p. 125.

## BOTTOMFISH

Alaska, southeast:  
resources studies by M/V "Commando"; Sept. p. 19, Dec. p. 24.

## BOTTOMFISH

## Alaska, southeast:

resources studies by M/V "John R. Manning"; Sept. p. 18.

Australia, Japan to survey \_\_\_\_\_ resources in waters off; Feb. p. 71.

## Bering Sea:

## Japan:

catches of \_\_\_\_\_ in 1964; Jan. p. 17.  
factoryship operation ends; Nov. p. 64.  
fleet, composition of; Mar. p. 80.  
fleets, three, sailed in May for; Aug. p. 79.

Canada, new \_\_\_\_\_ stocks located off British Columbia; Oct. p. 68.

Florida, survey of trawl fish potential off west coast by M/V "Hernan Cortez"; Aug. p. 39, Oct. p. 33.

## Gulf of Mexico:

commercial catch sampling; Mar. p. 38, June p. 23.  
industrial fishery for \_\_\_\_\_ in northern area, 1959-62, review of; Jan. p. 1.

## Japan:

Bering Sea fishery; Jan. p. 78.  
Gulf of Alaska gill-net fishery; Dec. p. 1.  
North Pacific-Bering Sea, catch trends in; Sept. p. 68.  
North Pacific-Bering Sea fishery, \_\_\_\_\_ Mothership Association submits recommendations on; Feb. p. 68.  
Okhotsk Sea, three fleets operating in; Nov. p. 64.  
New England landings in 1964 and forecast for 1965; Feb. p. 29.

## BOY SCOUTS

Oceanography Merit Badge awarded to \_\_\_\_\_; July p. 125.

## BRAZIL

AID sponsors fishery resource investment survey in \_\_\_\_\_; Apr. p. 61.

Lobster, spiny, production and exports lower; Nov. p. 49.

Mexican vessels bought for fisheries venture; Nov. p. 49.

## Northeast:

commercial fishery potential in \_\_\_\_\_ reported by U. S. survey team; Mar. p. 68.  
government assistance programs planned for fisheries; June p. 46.

Tuna, canned, Ecuador exports to \_\_\_\_\_; Mar. p. 74.  
United Nations Special Fund, fishery assistance under; Oct. p. 64.

U. S. aid for development of fresh-water fisheries; Apr. p. 61.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.

## BRISTOL BAY

## Crab, king:

## Japan:

fleet production; Aug. p. 78.  
pot fishing test in \_\_\_\_\_; Nov. p. 63.  
pots may be used to fish in \_\_\_\_\_ in 1965; Feb. p. 67.  
trap fishing planned in \_\_\_\_\_; Feb. p. 66.  
Salmon, Alaska forecasts good run to \_\_\_\_\_ in 1965; Apr. p. 12.

## BRITISH COLUMBIA (see CANADA)

**BRITISH GUIANA**

Shrimp fishery trends; Nov. p. 49.

**BRITISH HONDURAS**

Fishery trends, early 1965; July p. 60.  
Lobster, spiny, exports; July p. 60.

**BRITISH WEST INDIES**

Barbados shrimp fishery trends, 1964; July p. 60.

**BULGARIA**

Atlantic fisheries expansion planned; Aug. p. 67.  
Fisheries center at Burgas being built to support high-seas fisheries; Aug. p. 67.  
Soviet Bloc Cooperative Fishery Agreement, \_\_\_\_\_ included in; Feb. p. 78.  
Trawling off the South Africa Republic; Dec. p. 80.  
Uruguay, fisheries project proposed by \_\_\_\_\_ in; Nov. p. 76.  
Vessels:  
fishing, second congress of socialist countries attended by \_\_\_\_\_; May p. 57.  
trawlers, factory stern, and transports to be delivered to \_\_\_\_\_ by the U.S.S.R.; Aug. p. 68.  
trawlers, 300-ton, to be built in \_\_\_\_\_ for the U.S.S.R.; Aug. p. 68.

**BUOYS**

Gear research and exploratory fishing \_\_\_\_\_; June p. 12.  
Unmanned \_\_\_\_\_, study being made off Massachusetts of; Dec. p. 44.

**BUREAU OF COMMERCIAL FISHERIES (see COMMERCIAL FISHERIES, BUREAU OF)****BUREAU OF CUSTOMS (see CUSTOMS, BUREAU OF)****BUREAU OF SPORT FISHERIES AND WILDLIFE (see SPORT FISHERIES AND WILDLIFE, BUREAU OF)****BURMA**

Fisheries trade placed under Government control; Nov. p. 50.  
Mackerel and saury, canned, \_\_\_\_\_ invites bids on; Apr. p. 62.

**BURUNDI**

Participates in seminar on administration and planning for fisheries development; June p. 39.

**CALIFORNIA**

Abalone observations and growth studies (M/V "Mollusk"); Mar. p. 25.  
African projects, \_\_\_\_\_ firm gets guarantees from AID for; Sept. p. 80.  
Anchovies:  
fishing regulations proposed; Oct. p. 24.  
fishing under reduction permits considered by State Fish and Game Commission; Dec. p. 27.  
plan sought for scientific management of resource; Oct. p. 24.  
Cod-end trawl tests and halibut-tagging project (M/V "Alaska"); Oct. p. 22.  
Crab and shrimp resources survey in coastal waters continued (M/V "N. B. Scofield"); Apr. p. 17.  
Crab, Dungeness:  
abundance and condition surveyed prior to open season (M/V "N. B. Scofield"); Mar. p. 24.

**CALIFORNIA**

Crab, Dungeness:  
catch forecast, 1964/65 season; Feb. p. 15.  
resources in coastal waters, survey continued of (M/V "Nautilus"); Oct. p. 23.  
Fish and Wildlife conservation and development, long-range plan for; Dec. p. 27.  
Marine sport fish survey off southern \_\_\_\_\_ continued (airplane flights 65-8 and 65-9); Oct. p. 25.  
Net weight labeling adopted, regulations on; Mar. p. 20.  
Pelagic fish population survey continued:  
airplane spotting; Mar. p. 22, Apr. p. 16, Aug. p. 26.  
M/V "Alaska"; Mar. p. 20, Apr. p. 14, May p. 13, July p. 18, Aug. p. 25.  
Research Center, Marine, being established by University of Southern \_\_\_\_\_; Nov. p. 19.  
Salmon:  
planting program in Russian River; Apr. p. 14.  
silver stocking program to continue despite flood losses; Apr. p. 13.  
San Francisco Bay investigations continued by M/V "Nautilus"; Apr. p. 18, Oct. p. 24.  
Shrimp:  
fishing area, commercial, closed for season; Oct. p. 24.  
fishing off northern \_\_\_\_\_ closed with attainment of quota; Oct. p. 48.  
resources in coastal waters, survey continued of (M/V "Alaska"); Oct. p. 22.  
resources in coastal waters surveyed (M/V "N. B. Scofield"); Mar. p. 23, Apr. p. 17, Aug. p. 26.  
Sport fish, marine, survey off southern \_\_\_\_\_ (airplane survey); Aug. p. 27.  
Tuna, albacore:  
and bluefin coastal fishery affected by unusually low water temperatures in July 1965; Nov. p. 36.  
determining age; Aug. p. 127.  
Pacific 1965 season, first caught off \_\_\_\_\_ for; Aug. p. 55.  
Vessels, fishing, subsidy hearings on applications from \_\_\_\_\_; Aug. p. 100, Nov. p. 78.  
Whale catch, 1964; Feb. p. 46.

**CAMERA (see UNDERWATER PHOTOGRAPHY)****CAMEROON, REPUBLIC OF**

Fishery trends, 1964; Aug. p. 68.  
Participates in seminar on administration and planning for fisheries development; June p. 39.

**CANADA**

Bottomfish stocks, new, located off British Columbia; Oct. p. 68.  
British Columbia:  
Fisheries Committee meets, Federal-Provincial; Mar. p. 71.  
fishery landings, 1964; Apr. p. 62.  
Commercial fishery trends generally satisfactory in 1964; Jan. p. 64.  
Development program for national fisheries; Jan. p. 65.  
Exports:  
marketing problems of fresh-water fisheries, new Commission to study; Sept. p. 58.  
strong demand for fishery products indicated; Jan. p. 65.  
Fisheries:  
Department reorganized; Nov. p. 50.



## CANADA (cont.)

## Fisheries (cont.):

firm joins British frozen food concern; Apr. p. 88.  
Minister reports to parliament on progress made in 1964; Jan. p. 64.

trends, 1963-64; May p. 59.

Fishermen's improvement loans act liberalized; Oct. p. 68.

Fishing limits, comment by Fisheries Minister on \_\_\_\_\_; Jan. p. 67.

Fish meal exports, 1963-64; July p. 61.

Fish oil exports, 1963-64; July p. 61.

Fleet, fishing, status on Atlantic Coast; Jan. p. 65.

Floating fish factory planned; Mar. p. 71.

## Fresh-water:

fish exported to western Europe; Dec. p. 51.

fisheries development discussed by Federal-Provincial Committee; June p. 49.

fisheries export marketing problems to be studied by new Commission; Sept. p. 58.

## Great Lakes:

lamprey control experiment group headquarters relocates; Sept. p. 58.

landings, commercial fishery; Mar. p. 33, Aug. p. 38.

## Herring:

## British Columbia:

labor dispute settled; Feb. p. 53.

landings and products, 1964/65; June p. 48.

price dispute, fishing halted by; Jan. p. 64.

Industrial development projects in the fisheries; Jan. p. 67.

Inspection of fishery products, expanded program planned for; Feb. p. 53.

International North Pacific Fisheries Convention, Fisheries Minister of \_\_\_\_\_ reports on Ottawa re-negotiation talks; Jan. p. 57.

Landings, fishery, in 1963; Mar. p. 63.

## Lobster:

Atlantic stocks, more effective management proposed of; Dec. p. 51.

trap, dome-shaped, designed with unique features; Jan. p. 67.

## Marine oil:

exports, 1962-1964; July p. 62.

imports, 1963-1964; July p. 62.

production, use, and foreign trade, 1963-64; July p. 62.

"National Fish 'n Seafood Month," October 1965 proclaimed as; Apr. p. 64.

## Newfoundland:

Canadian-British joint fisheries venture in; Dec. p. 52.

community fish processing centers, government sponsors new; May p. 60.

fishermen, government relocation program for; May p. 60.

Ontario, Province of, landings higher in first half of 1965; Dec. p. 52.

Otter trawling in certain "lobster" waters off New Brunswick banned; Apr. p. 62.

Oyster hatchery, experimental, opened on Prince Edward Island; Jan. p. 69.

Pacific Northwest, salmon, coho, grilse 1965 tagging program at Georgia Strait-Discovery Passage; Nov. p. 51.

Prairie fisheries committee meeting, Federal-Provincial; Sept. p. 57.

Research vessel "E. E. Prince," new, to be built for Atlantic investigations; Jan. p. 69.

## CANADA

## Salmon:

British Columbia pack in 1964; Feb. p. 52.

chum run to Fraser River light in 1965; Dec. p. 53.

fishway being built at Meziadin Falls in British Columbia; Nov. p. 51.

Fraser River fishing closes early; Dec. p. 53.  
license, fishing, changes proposed to reduce fishing pressure; Nov. p. 52.

Nova Scotia, new rearing station planned for; Nov. p. 52.

sales to South Africa increasing; Nov. p. 52.

Salted fish for distribution to countries suffering food shortage; Oct. p. 68.

## Seals:

Gulf of St. Lawrence operations, 1965; May p. 61.

harp, declining herds protected by St. Lawrence catch quota in 1965; May p. 61.

skins from \_\_\_\_\_ included in Danish auction in Feb. 1965; June p. 52.

Seaweed processing plant for Prince Edward Island; Oct. p. 68.

Sport fishing, \_\_\_\_\_ sponsors symposium on the economic aspects of; Mar. p. 72.

Swordfish and tuna study in the South Atlantic and Caribbean area; July p. 61.

## Tuna:

and swordfish study in the South Atlantic and Caribbean area; July p. 61.

purse-seiner launched as east coast industry project moves forward; Mar. p. 70.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## Vessels:

insurance plan extended; Apr. p. 63.

insurance under fishermen's indemnity plan; May p. 59.

small, conference on the design, construction, and operation of; Nov. p. 75.

## stern trawler:

large, for Nova Scotia firm; May p. 62.

large, launched in \_\_\_\_\_; Mar. p. 70.

subsidy extended; Apr. p. 63.

subsidy increase emphasizes importance of Pacific trawling; May p. 59.

## CANARY ISLANDS

## Fish meal:

industry outlook and general fisheries situation; Feb. p. 83.

plants restart processing; Feb. p. 53.

## CANNED FISH

Canners convention met in San Francisco, Jan. 22-27, 1965; Feb. p. 16.

Japanese market, \_\_\_\_\_ in short supply on; Sept. p. 71.

Morocco's \_\_\_\_\_ sales to Cuba increase; May p. 81.

Norwegian exports; Feb. p. 76, Mar. p. 85, Apr. p. 79, May p. 84, June p. 67, July p. 88, Aug. p. 90, Sept. p. 72, Nov. p. 68, Dec. pp. 76-77.

## Portugal:

exports; Jan. p. 84, Mar. p. 87, July p. 90, Sept. p. 74, Dec. p. 79.

industry outlook for 1965; Aug. p. 93.

pack; Mar. p. 87, July p. 90, Sept. p. 74, Dec. p. 79.

Salmon, Pacific stocks; Jan. p. 45, Feb. p. 37, Mar. p. 26, Apr. p. 33, May p. 31, June p. 32, July p. 45, Aug. p. 52, Sept. p. 41.

**CANNED FISH (cont.)**

Sanitary regulations for \_\_\_\_\_ drafted at OECD meeting of experts; Jan. p. 59.  
 South Africa, producers report strong demand for Walvis Bay products; Jan. p. 89.  
 U. S. pack, 1964; June p. 16.

**CANNED FISHERY PRODUCTS**

Defense Department purchases:  
 monthly data; Jan. p. 28, Feb. p. 22; Mar. p. 30,  
 May p. 18, June p. 19, Aug. p. 35.  
 1964 summary; Mar. p. 29.

**CANNERY**

Alaska, new floating \_\_\_\_\_ for shrimp; Aug. p. 22.

**CANS**

Shipments for fishery products; Jan. p. 19, Feb. p. 15, Mar. p. 26, May p. 14, June p. 17, Aug. p. 28, Sept. p. 20, Oct. p. 26, Dec. p. 28.

**CAPE VERDE ISLANDS**

Tuna, Japanese long-liners fish out of \_\_\_\_\_ base; Feb. p. 54.

**CARGO HANDLING**

"Vanships" and "trailerships," special, facilitate handling of fish and other cargo in steamship trade between Alaska and Washington State; May p. 40.

**CARIBBEAN SEA**

Cuban-Soviet fishery and oceanographic research; Oct. p. 70.  
 Fishery resource survey of \_\_\_\_\_ and tropical Atlantic by M/V "Oregon"; Jan. p. 19.  
 Tuna, Faroese vessel to long-line in \_\_\_\_\_; Mar. p. 74.  
 United Nations Special Fund, research in fisheries in \_\_\_\_\_ area assisted by; Apr. p. 51.

**CENTRAL AMERICA**

United Nations Special Fund:  
 development project to aid fisheries in \_\_\_\_\_; May p. 56.  
 research in fishery processing and marketing in \_\_\_\_\_ assisted by; Apr. p. 51.

**CARP**

Grass \_\_\_\_\_ eat weeds to aid power plant operation; Apr. p. 91.

**CATFISH**

FAO expert finds great schools of \_\_\_\_\_ in Ganges Delta area of Pakistan; Apr. p. 81.

**CAVIAR**

Salmon, Alaska industry for \_\_\_\_\_ developing; Oct. p. 21.

**CENTRAL PACIFIC FISHERIES INVESTIGATIONS**

Bathymograph, expendable, equipment tested (M/V "Charles H. Gilbert"); May p. 14.  
 Oceanography, trade wind zone studies continued; Jan. p. 23, Feb. p. 17, Mar. p. 27, Apr. p. 19, May p. 15, July p. 20, Aug. p. 32, Sept. p. 21, Oct. p. 29.  
 Oxygen studies in relation to catching tuna; Dec. p. 28.  
 Plankton net tests in Hawaiian waters, results of; Oct. p. 27.

**CENTRAL PACIFIC FISHERIES INVESTIGATIONS**

Submarine:  
 studies off Hawaii; Oct. p. 28.  
 underwater research brings new discoveries; Dec. p. 29.  
 Trade wind zone oceanographic studies continued; Jan. p. 23, Feb. p. 17, Mar. p. 27, Apr. p. 19, May p. 15, July p. 20, Aug. p. 32, Sept. p. 21, Oct. p. 29.  
 Tuna:  
 behavior studies:  
 aid to U. S. fishing industry; May p. 41  
 response to signals; July p. 20.  
 transport techniques for live fish; Aug. p. 29.  
 blood group studies, advances made in; Apr. p. 18.  
 larvae, equipment tested for sampling; Oct. p. 26.  
 research observations on; Aug. p. 31.  
 response to outside stimuli, experiments on; Jan. p. 22.  
 skipjack:  
 biological studies continued by M/V "Charles H. Gilbert"; Jan. p. 22, Feb. p. 16, June p. 17, Aug. p. 28, Sept. p. 20, Oct. p. 26.  
 blood group studies; June p. 18.  
 forecast for summer 1965 Hawaiian fishery; July p. 19.  
 large numbers appear around Hawaiian Islands; Aug. p. 29.  
 origin and movement in Pacific Ocean studied; Mar. p. 26.  
 subsurface fish, specially designed sonar system for locating; Aug. p. 31.

**CEYLON**

Fishing industry aims at five-fold increase in catch; June p. 49.  
 Harbors, new, for fishing vessels planned; Oct. p. 69.  
 Scottish group to help develop \_\_\_\_\_ fisheries; May p. 63.  
 Training fishermen, U. S. experts sought for; Sept. p. 59.

**CHAD**

Participates in seminar on administration and planning for fisheries development; June p. 39.

**CHANNEL ISLANDS**

Lobster hatching experiments in Guernsey; Dec. p. 82.

**CHART(S)**

Coast and Geodetic Survey, U. S., begins 1965 survey to update marine \_\_\_\_\_; Apr. p. 30.  
 Fisheries of North Sea, various countries publish \_\_\_\_\_ on; Dec. p. 48.

**CHESAPEAKE BAY**

Cod fishery in the Northwest Atlantic; July p. 1.  
 Crab, blue; winter \_\_\_\_\_ catch may be affected by unusually warm weather; Feb. p. 21.  
 Research Council, \_\_\_\_\_, holds first annual meeting; May p. 16.

**CHESAPEAKE STATES**

Landings, fishery, 1963; Jan. p. 24.

**CHICAGO MERCANTILE EXCHANGE**

Shrimp, frozen, revised rules and specifications on futures trading; May p. 36.

## CHILE

- Anchoveta:  
catch for 1964 and outlook for 1965; Jan. p. 71.  
landings in Peru and \_\_\_\_\_, 1963 and 1964; Apr.  
p. 81.  
Cooperatives, U. S. AID loan to help bank for; Oct.  
p. 101.  
Crab, Japanese enterprise in \_\_\_\_\_ delayed; July  
p. 74.  
Fisheries trends; Jan. p. 70, Apr. p. 64.  
Fishing fleet; Jan. p. 71.  
Fish meal:  
anchoveta shortage, industry hurt by; May p. 63,  
June p. 50, Aug. p. 69.  
exports; Jan. p. 71, July p. 64.  
industry trends; Apr. p. 64, July p. 63.  
plant capacity; Jan. p. 71.  
production:  
continued at low level in May 1965; Sept. p. 59.  
costs; Jan. p. 71.  
estimate for 1964 and outlook for 1965; Jan. p. 71.  
relief measures approved for depressed industry;  
Oct. p. 69.  
Fish oil:  
exports; Jan. p. 71, July p. 64.  
plant capacity; Jan. p. 71.  
production:  
costs; Jan. p. 71.  
estimate for 1964 and outlook for 1965; Jan. p. 71.  
Sardine canning industry; May p. 63.  
Shellfish industry shows promise; Aug. p. 69.  
Trout fishery cooperative in a desert; Jan. p. 104.  
Tuna export industry planned; Jan. p. 70.  
United Nations Special Fund assistance given for  
fishery research in \_\_\_\_\_; Apr. p. 50.  
U. S. imports of fishery products from \_\_\_\_\_, 1963;  
June p. 34.  
Whalers, Japanese, three more licensed to fish off  
\_\_\_\_\_; Apr. p. 65.  
Whaling, Japanese-\_\_\_\_\_ venture; Oct. p. 69.

## CHUB

- Lake Michigan:  
seasonal distribution and abundance studies of  
alewife, \_\_\_\_\_, and yellow perch continued; Jan.  
p. 30, July p. 22.  
trawling, experimental, continued; Sept. p. 27.  
Lake Superior, trawling for \_\_\_\_\_ successful during  
M/V "Kaho" cruise; Sept. p. 25.  
Smoked and fresh, rapid field method for deter-  
mining the salt concentration in; Dec. p. 18.

## CHINA, COMMUNIST

- Japanese:  
ask for extension of private fisheries agreement  
with \_\_\_\_\_; Dec. p. 70.  
fishery representatives tour \_\_\_\_\_; Feb. p. 71.  
fishing off \_\_\_\_\_ coast protested as illegal; Sept.  
p. 71.  
salmon imports from \_\_\_\_\_; Mar. p. 81.

## CHINA SEA

- FAO Indo-Pacific Fisheries Council, research  
project on south \_\_\_\_\_ and Sunda Shelf proposed  
at 11th session of; Mar. p. 65.

## CIVIL SERVICE COMMISSION

- Oceanography, minimum educational requirements  
for Federal positions revised; July p. 98.

## CLAMS

- Antimicrobial substances in \_\_\_\_\_ possess tumor-  
preventive activity; Nov. p. 99.  
Fresh and frozen shucked raw \_\_\_\_\_, Federal speci-  
fications proposed for; Mar. p. 30.  
Oregon, littleneck \_\_\_\_\_ species especially suited to  
bays and estuaries introduced on test basis; July  
p. 43.  
Potomac River:  
certain areas closed to soft-shell harvesting; Aug.  
p. 33.  
Fisheries Commission regulations for soft-shell  
\_\_\_\_\_; May p. 31.  
Research discussed at annual meeting of National  
Shellfish Association; Sept. p. 49.  
Seed culture programs conducted by Atlantic coastal  
states; May p. 35.  
Soft-shell:  
irradiation preservation of fresh \_\_\_\_\_ meats;  
Oct. p. 1.  
residual shell in shucked \_\_\_\_\_, estimating; Feb.  
p. 10.  
Surf:  
Atlantic \_\_\_\_\_ survey during M/V "Delaware"  
cruise; Sept. p. 34.  
explorations for \_\_\_\_\_ off Maryland and Virginia  
continued; June p. 28.  
survey off Atlantic coast, 1964 progress report on;  
Feb. p. 18.

## COD

- Blocks, imports of Soviet product, Mass. State Leg-  
islature passes resolution on; May p. 23.  
Denmark's fillet and fish block production short of  
export demand; Nov. p. 54.  
Fillets, fresh, irradiation preservation of; Oct.  
p. 1.  
New England landings in 1964 and forecast for 1965;  
Feb. p. 30.  
Norway:  
Arctic \_\_\_\_\_, Soviet-Norwegian talks on; May p. 82.  
fishery trends; May p. 81, Aug. p. 89, Oct. p. 90.  
Lofoten fishery down in 1965; July p. 88.  
Salted, Italian duty-free import quota set in 1965 by  
EEC; May p. 69.  
U.S.S.R. blocks go to West Germany and other  
countries; Apr. p. 85.  
U. S. fishery in the Northwest Atlantic; July p. 1.

## CLEANER-DEBACKER

- Crab, blue, semiautomatic \_\_\_\_\_ machine demon-  
strated; May p. 12, Aug. p. 25, Dec. p. 27.

## COAST AND GEODETIC SURVEY

- Continental shelf, study launched of economic poten-  
tialities of; Nov. p. 98.  
Pacific Seismic Sea Wave Warning System operated  
by \_\_\_\_\_; Apr. p. 31.  
Vessels chart and survey the oceans; Apr. p. 30.

## COAST GUARD, U. S.

- Alaska patrol; Feb. p. 111.  
Buoys, unmanned, off Massachusetts, cooperative  
study with Bureau of Commercial Fisheries; Dec.  
p. 44.  
Collisions at sea, international regulations for pre-  
venting; Jan. p. 103.  
Cutter "Northwind" to study northern waters; Sept.  
p. 40.

## COAST GUARD, U. S. (cont.)

- International Rules of the Road, new, fishermen advised to study; May p. 42.
- Lighthouse, atomic-powered, placed in operation in Chesapeake Bay by \_\_\_\_; Feb. p. 28.
- Light towers, offshore, part of \_\_\_\_ modernization program; Feb. p. 28.
- Oceanography:
  - Arctic basin research by \_\_\_\_; Feb. p. 29.
  - participation broadened; Feb. p. 29.
  - research expanded in 1964 by \_\_\_\_; Feb. p. 29.
  - Siberian Arctic, "Northwind" completes major study in; Dec. p. 42
- Vessel, fishing, rules of the road, pamphlet issued on; July p. 51.

## CODEX ALIMENTARIUS COMMISSION

- Food Hygiene Committee holds second meeting; Sept. p. 55.

## COLD-STORAGE

- Mexico markets, new, opened by new freezing and distributing center for fishery products; Feb. p. 73.

## COLLISIONS AT SEA

- International regulations for preventing; Jan. p. 103, Feb. p. 95.

## COLOMBIA

- United Nations Special Fund assistance given for fishery and oceanographic research in \_\_\_\_; Apr. p. 50.

## COLUMBIA BASIN INTER-AGENCY COMMITTEE

- Fishery resources, \_\_\_\_ meets to discuss; Nov. p. 19.

## COLUMBIA RIVER

- Columbia Basin Inter-Agency Committee meets to discuss fishery resources; Nov. p. 19.
- Demersal fish at mouth of \_\_\_\_ surveyed by M/V "John N. Cobb"; Apr. p. 27.
- Floods in December 1964 cause heavy damage; Mar. p. 28.
- Sablefish found in deep water off the mouth of the \_\_\_\_; distribution, abundance, and size of; Nov. p. 1.
- Salmon:
  - fishery reopened below Bonneville Dam; Oct. p. 30.
  - returns of fall chinook and silver to lower \_\_\_\_ hatcheries in 1964 excellent; Mar. p. 47.
  - summer season, closure of; Aug. p. 33.

## COLUMBIA RIVER FISHERY DEVELOPMENT PROGRAM

- Flood damage to fishery facilities, Federal funds allocated under \_\_\_\_ to repair; Aug. p. 33.
- Willamette River system, large-scale salmon planting carried out under the \_\_\_\_; Apr. p. 32.

## COMMERCE, DEPARTMENT OF (see AREA REDEVELOPMENT ADMINISTRATION; COAST AND GEODETIC SURVEY)

## COMMERCIAL FISHERIES, BUREAU OF (also see FISH AND WILDLIFE SERVICE; INTERIOR, DEPARTMENT OF THE; and SPORT FISHERIES AND WILDLIFE, BUREAU OF)

- Commercial Fisheries Research and Development Act, amended regulations under the; Aug. p. 102.

## COMMERCIAL FISHERIES, BUREAU OF

- Commercial fishermen trainee, on-the-job training program for; Apr. p. 9.
- Fisheries Loan Fund:
  - application for purchase of a salmon vessel; Nov. p. 78.
  - requirements revised; Oct. p. 104.
- Fishery loan program extension requested by Department of the Interior; Apr. p. 92.
- Fur seals, Pribilof Islands skin harvest, 1965; Dec. p. 31.
- Inspection and certification procedures, U. S., for fishery products modified by minor technical amendments; Aug. p. 101
- Inspection program for fishery products, penalties proposed for violation of regulations of; July p. 99.
- Ireland releases fisheries report on survey made by U. S. study group from \_\_\_\_; Jan. p. 73.
- Laboratory, new Fishery Research, of the \_\_\_\_ dedicated in Seattle, Wash.; July p. 44.
- North Atlantic Region organization; Feb. outside back cover.
- Oceanography:
  - buoys, unmanned, off Massachusetts, cooperative study with U. S. Coast Guard of; Dec. p. 44.
  - Gulf of Guinea survey by research vessel "Geronomo"; Jan. p. 43.
  - students train aboard research vessel of \_\_\_\_; Sept. p. IV.
- Reconnaissance flights of \_\_\_\_ in North Atlantic to observe foreign fishing activities; Feb. p. 30.
- Seal skins, Alaska:
  - contract awarded by Interior Department for research to improve processing techniques for; Nov. p. 79.
  - contract awarded for processing, promoting, and selling; July p. 101.
- Shrimp, brown, successfully reared from eggs by scientist of \_\_\_\_; June p. 81.
- Shrimp, frozen raw breaded:
  - interim amendment to U. S. standards for grades of; Aug. p. 100.
  - revised U. S. standards for grades; Oct. p. 101.
- standards, proposed revised, Government-industry meeting on; June p. 82.
- Submarine, research, nuclear-powered, plans studied by \_\_\_\_ for; Aug. p. 50.
- Subsidy, fishing vessel construction, regulations adopted; Jan. p. 99.
- Tuna forecasting program predicts Pacific coastal area catch for 1965; July p. 49.
- Vessel:
  - fishery research, new; Sept. p. 44.
  - new type built for research in reservoirs; Aug. p. 42.
  - research, "David Starr Jordan" launched by \_\_\_\_; Feb. p. 45.
- Whale-marking program off Pacific coast; Nov. p. IV.
- Women take part in fishery research cruises; Mar. p. 130.

## COMMERCIAL FISHERIES RESEARCH AND DEVELOPMENT ACT

- Grant-in-aid funds apportioned to States for fiscal year 1966; Sept. p. 22.
- Lake trout study, Michigan requests Federal funds for; Aug. p. 44.
- New Jersey oyster industry, Federal grant to aid; Sept. p. 34.
- Regulations, amended, under the \_\_\_\_; Aug. p. 102.



**COMMERCIAL FISHERIES RESEARCH AND DEVELOPMENT ACT (cont.)**

Regulations, proposed amended, under the \_\_\_\_;  
June p. 83.

**COMMERCIAL FISHERIES REVIEW**

Spanish reader comments on \_\_\_\_; Aug. p. 18.

**COMMUNIST CHINA (see CHINA, COMMUNIST)****COMPUTERS**

Vessel designing with \_\_\_\_ discussed at Third International Technical Meeting on Fishing Boats;  
Dec. p. 47.

**CONGO-BRAZZAVILLE**

Participates in seminar on administration and planning for fisheries development; June p. 39.  
Tuna, yellowfin, fishery in the eastern tropical Atlantic; Aug. p. 7.

**CONGRESS, EIGHTY-EIGHTH (First Session)**

Pesticides and fish and wildlife; Mar. p. 106.

**CONGRESS, EIGHTY-EIGHTH (Second Session)**

Metric system study; Feb. p. 97.  
Price quality stabilization; Mar. p. 106.

**CONGRESS, EIGHTY-NINTH (First Session)**

Alaska fur seal; June p. 85.  
Alaskan economy; Oct. p. 107.  
Anadromous fish conservation; Feb. p. 95, Mar. p. 100, May p. 99, July p. 104, Sept. p. 83, Oct. p. 107, Nov. p. 80, Dec. p. 85.  
Antidumping Act amendment; Feb. p. 95, Apr. p. 94, July p. 104, Aug. p. 103, Sept. p. 83, Oct. p. 107.  
Antidumping international procedures; Sept. p. 83.  
Aquatic plant control; Apr. p. 94, July p. 104, Aug. p. 103, Nov. p. 80.  
Biological research vessel dedication; June p. 85.  
Budget; Mar. p. 101.  
California; June p. 85.  
California commercial fishing industry; Aug. p. 103.  
Cedar River Harbor, Mich.; Nov. p. 80.  
Chesapeake Bay oyster production; Oct. p. 107.  
Coastal fishery resources of U. S.; Mar. p. 101.  
Commercial fisheries advancement fund; Feb. p. 95.  
Commercial fisheries and sport fisheries separation; June p. 85.  
Commercial Fisheries, Bureau of, report; Feb. p. 95.  
Commercial fisheries research and development act; May p. 99.  
Commercial fishery resources survey; Mar. p. 101.  
Commodity packaging and labeling; Feb. p. 96, May p. 99, June p. 85, July p. 104, Nov. p. 81.  
Congress adjourns; Dec. p. 85.  
Congress convenes; Feb. p. 95.  
Continental Shelf fishery resources; June p. 85.  
Crescent City Harbor, Calif.; Nov. p. 81.  
Ecological research and survey; Sept. p. 83, Oct. p. 107.  
Export Expansion Act of 1965; Mar. p. 101, May p. 99.  
Factory-fishing vessels; Sept. p. 83, Oct. p. 107.  
Fish and wildlife; Nov. p. 81.  
Fish and Wildlife Coordination Act; Aug. p. 103.  
Fisheries loan fund amendment; July p. 105.

**CONGRESS, EIGHTY-NINTH (First Session)**

Fisheries loan fund extension; Mar. p. 101, Apr. p. 94, May p. 99, July p. 105, Aug. p. 103, Sept. p. 83.  
Fisheries legislation, 1965; July p. 105.  
Fishermen's Cooperative Associations Bank; Aug. p. 104, Sept. p. 83.  
Fishermen's organization and collective bargaining; Mar. p. 101, Aug. p. 104, Sept. p. 84, Oct. p. 108.  
Fishermen's Protective Act Amendment; Sept. p. 83.  
Fish farming; May p. 100, June p. 85, Oct. p. 108.  
Fish hatcheries; Feb. p. 96, Mar. p. 102, Apr. p. 95, May p. 99.  
Fishing industry; Mar. p. 102.  
Fishing limit of 12 miles; Aug. p. 104, Sept. p. 84.  
Fishing vessel replacement reserve fund; June p. 85, July p. 105, Aug. p. 104.  
Fish protein concentrate plants; Dec. p. 85.  
Food for peace; May p. 100.  
Food irradiation program; Aug. p. 105, Oct. p. 108.  
Food Marketing National Commission; Mar. p. 102, Apr. p. 95, May p. 100, June p. 85, July p. 105, Sept. p. 84, Oct. p. 108.  
Food standards--Codex Alimentarius Commission; Nov. p. 81.  
Food Study and Coordination Commission; Dec. p. 85.  
Foreign aid and fisheries jurisdiction; Aug. p. 105, Oct. p. 108.  
Foreign vessels' processing of fishery products in U. S. territorial waters banned; Mar. p. 102.  
Fur Seal Conservation and Pribilof Islands Administration; Aug. p. 105, Nov. p. 81.  
Fur seals; Apr. p. 95.  
Grand Isle and vicinity, Louisiana; Aug. p. 105.  
Great Lakes commercial fishermen's problems; Apr. p. 95, May p. 100.  
Halibut Commission; July p. 105, Aug. p. 105, Sept. p. 84, Oct. p. 108, Nov. p. 81.  
Halibut fishing; Mar. p. 102.  
Halibut week; July p. 105.  
Hawaii; Apr. p. 95.  
Health, Education, and Welfare appropriations, FY 1966; June p. 86, July p. 105, Aug. p. 105, Sept. p. 84, Oct. p. 108, Nov. p. 81.  
Highways and fish and wildlife protection; June p. 86, July p. 105.  
Hudson River fishery resources; June p. 86.  
Import commodity labeling; Feb. p. 96.  
Import competition adjustment; Mar. p. 102.  
Import restrictions on fishery products; July p. 106.  
Import statistics; Dec. p. 85.  
Inland, Great Lakes and Western Rivers Rule for Small Vessels; Apr. p. 95, Aug. p. 105, Oct. p. 109, Nov. p. 81.  
Interior Department appropriations, FY 1966; Mar. p. 102, Apr. p. 95, May p. 100, June p. 86, July p. 106, Aug. p. 106.  
Interior Department; Mar. p. 102, Apr. p. 95, May p. 100, June p. 86, July p. 106.  
International fishery problems; Mar. p. 102.  
International fishery treaties study; June p. 86.  
International organizations; Nov. p. 82.  
Jellyfish-Control Elimination in Coastal Waters of U. S.; Nov. p. 82.  
Lake Erie water pollution; May p. 101.  
Liens for leased vessel equipment; Oct. p. 109.  
Marine and atmospheric affairs coordination act of 1965; Sept. p. 84.  
Marine biological laboratory; May p. 101, June p. 87, Sept. p. 84, Nov. p. 82, Dec. p. 85.

## CONGRESS, EIGHTY-NINTH (First Session) (cont.)

Marine Exploration and Development Act; Mar. p. 103, Apr. p. 95, May p. 101, June p. 87.  
Metric system study; Feb. p. 96, Mar. p. 103, Aug. p. 107, Sept. p. 84, Oct. p. 109, Nov. p. 82.  
Minimum wage; Mar. p. 103, May p. 101, June p. 87, Aug. p. 107, Sept. p. 84, Oct. p. 109, Nov. p. 82.  
Morgan City and vicinity, Louisiana; Aug. p. 107.  
National Fisheries Center and Aquarium Advisory Board; Mar. p. 103, Apr. p. 95.  
National Sea Grant Colleges and Program Act of 1965; Oct. p. 109.  
National Science Foundation; Apr. p. 95.  
Natural Resources Department; Oct. p. 110.  
Navigation fees; June p. 87.  
New Bern and vicinity, North Carolina; Aug. p. 107.  
North American Fisheries Conference; July p. 106.  
North Pacific Fisheries Convention; July p. 106.  
North Pacific Fisheries Treaty; Apr. p. 96, June p. 87, Aug. p. 107, Oct. p. 110.  
North Pacific fishery problems; June p. 87.  
Oceanographic agency or council; Feb. p. 96, Apr. p. 96, May p. 101, June p. 87, Aug. p. 108, Sept. p. 85, Oct. p. 110, Nov. p. 82, Dec. p. 86.  
Oceanographic commission; Aug. p. 108.  
Oceanographic council; Mar. p. 103.  
Oceanographic investigations; Sept. p. 85.  
Oceanographic research and survey of commercial fishery resources of the United States; May p. 101.  
Oceanographic research vessel inspection; Mar. p. 103, June p. 87, Aug. p. 108, Sept. p. 85.  
Oceanography; Mar. p. 103, Apr. p. 96, May p. 101, June p. 88, Aug. p. 108, Sept. p. 85, Oct. p. 111.  
Oceanography legal problems; Apr. p. 96, June p. 87, Sept. p. 85.  
Oceanography Sea-Grant Colleges; July p. 106.  
Offshore fishery resources conservation; Feb. p. 96.  
Oil pollution of the sea, 1961; July p. 106.  
Orderly Marketing Act 1965; July p. 107, Aug. p. 108, Oct. p. 111, Nov. p. 83.  
Outer continental shelf restricted areas; Feb. p. 96, Mar. p. 103, Apr. p. 96.  
Pacific Southwest water resources; Feb. p. 96, Mar. p. 104.  
Passamaquoddy tidal power project; Mar. p. 104, May p. 102, Sept. p. 85.  
Pesticides and fish and wildlife; Mar. p. 104, May p. 102, June p. 88, Aug. p. 108, Oct. p. 111, Nov. p. 83.  
Pesticide research; Mar. p. 104, Apr. p. 96.  
Pesticides standards of nonpersistence; May p. 102.  
Port Orford, Oregon, navigation project; Mar. p. 104.  
Price discrimination practices; Feb. p. 96, May p. 102.  
Price-quality stabilization; June p. 88.  
Resources and Conservation Act; Mar. p. 104, May p. 102.  
Russian fisheries off American shore; Aug. p. 108.  
Salmon; May p. 102, July p. 107.  
Salmon import restrictions; June p. 88.  
School Lunch Act amendment; Mar. p. 104.  
Science and Technology Commission; Feb. p. 97, Apr. p. 97, Oct. p. 111.  
Sea-Grant College conference; Dec. p. 86.  
Shellfish shelling employee exemption; Dec. p. 86.  
Shrimp imports; Mar. p. 104, Oct. p. 112.  
Small business disaster assistance; July p. 107.  
Small business disaster loans; Mar. p. 104, Apr. p. 97, Aug. p. 108.

## CONGRESS, EIGHTY-NINTH (First Session)

State Department appropriations FY 1966; July p. 107, Aug. p. 108, Oct. p. 112, Nov. p. 83.  
Stern ramp trawlers; Nov. p. 84, Dec. p. 86.  
Submerged Lands Act; Mar. p. 104.  
Supplemental appropriations FY 1965; Apr. p. 97, May p. 102, June p. 88.  
Supplemental appropriations for FY 1966; Dec. p. 86.  
Susquehanna River dam; Apr. p. 97.  
Susquehanna River Basin; Mar. p. 105.  
Technological laboratory land in Maryland; Apr. p. 97, May p. 102, July p. 108, Aug. p. 109, Sept. p. 85, Nov. p. 84.  
Territorial Sea and Contiguous Zone Convention; July p. 108, Aug. p. 109, Sept. p. 86.  
Tillamook Bay and Bar, Oregon; Oct. p. 112.  
Tort claims against U. S. by commercial fishing vessels; Oct. p. 112.  
Trade agreement authority; Apr. p. 97.  
Trade agreement duty reduction; Oct. p. 112.  
Trade agreement program; Mar. p. 105.  
Trade council; Mar. p. 105.  
Trade Expansion Act Adjustment Assistance amendment; Apr. p. 97.  
Trade Expansion Act amendment; Feb. p. 97, Mar. p. 105, Aug. p. 109, Sept. p. 86, Oct. p. 112.  
Trawlers from Poland; Oct. p. 112.  
U. S. Fishing Fleet Improvement Act; Mar. p. 105.  
Vessel "Elva L."; July p. 108.  
Vessel "Gone Fishin IV"; Dec. p. 86.  
Vessel "Janice Vee"; Feb. p. 97, Sept. p. 86.  
Vessel measurement; Mar. p. 105, July p. 108, Aug. p. 109, Oct. p. 113, Nov. p. 84.  
Vessel numbers; Mar. p. 105.  
Water Pollution Control Act; Feb. p. 97, Mar. p. 105, Apr. p. 97, May p. 102, July p. 108.  
Water Pollution Control Administration; Feb. p. 97, Mar. p. 105, Apr. p. 97, May p. 103, June p. 89, Aug. p. 109, Sept. p. 86, Oct. p. 113, Nov. p. 84.  
Water pollution in U. S. navigable waters; June p. 89, July p. 108.  
Water pollution of Great Lakes; May p. 103.  
Water Project Recreation Act; Feb. p. 97, Apr. p. 97, May p. 103, June p. 89, July p. 108, Aug. p. 109, Sept. p. 86.  
Water Resources Planning Act; Feb. p. 97, Mar. p. 106, Apr. p. 97, May p. 103, June p. 90, Sept. p. 86.  
Water Resources Planning Act amendment; Oct. p. 113.  
Water resources research; Feb. p. 97, Mar. p. 106, Apr. p. 98, May p. 103, July p. 108.  
Whaling; Nov. p. 84.

## CONNECTICUT

Landings, fisheries, 1963; Jan. p. 38.

## CONSUMER

Protection of \_\_\_\_\_ stressed at 8th annual conference of Food and Drug Administration; Mar. p. 96.

## CONSUMPTION

Fishery products per capita \_\_\_\_\_; Jan. p. 25.  
Shrimp \_\_\_\_\_ at record high level in U.S.; Feb. p. 39.  
U. S. per capita \_\_\_\_\_ of fishery products, 1947-65; Aug. p. 33.

## CONTAINERS

Massachusetts to use sterilized and cleaned \_\_\_\_\_ for handling fish at ports; May p. 24.  
Plastic:  
crab meat \_\_\_\_\_ approved by Maryland; Oct. p. 31.

## CONTAINERS (cont.)

## Plastic (cont.):

fish boxes, new, to aid fresh fish marketing; Dec. p. 21.

## CONTINENTAL SHELF

Economic potentialities of \_\_\_\_\_ study launched of; Nov. p. 98.

North Atlantic waters of \_\_\_\_\_ surveyed by M/V "Albatross IV"; July p. 35, Aug. p. 47.

North Sea \_\_\_\_\_ agreements between United Kingdom and the Netherlands; Dec. p. 83.

Yugoslavian control over adjacent \_\_\_\_\_ resources and extended territorial waters, new law proclaims; Aug. p. 98.

## CONTINENTAL SHELF, CONVENTION ON

France deposits accession to \_\_\_\_\_; Dec. p. 48.

New Zealand deposits ratification; May p. 55.

Uganda accedes to \_\_\_\_\_; Jan. p. 59.

## CORONARY (ANTI)

Fish makes contribution to New York City's "Club" diet; Apr. p. 127.

## COSTA RICA

Canned sardine imports restricted by health authority; June p. 51.

United Nations Special Fund development project to aid fisheries in Central America; May p. 56.

## CRAB

## Blue:

Chesapeake Bay winter \_\_\_\_\_ catch may be affected by unusually warm weather; Feb. p. 21.

Cleaner-debacker machine, semiautomatic; May p. 12, Aug. p. 25, Dec. p. 27.

Sodium nitrite proposed to be used as a preservative and color fixative in canned \_\_\_\_\_; Nov. p. 78.

Chile, Japan delays enterprise in; July p. 74.

## Dungeness:

Alaska production, 1964; June p. 15.

## California:

abundance and condition of \_\_\_\_\_ surveyed prior to open season; Mar. p. 24.

catch forecast, 1964/65 season; Feb. p. 15.

survey of \_\_\_\_\_ and shrimp resources in coastal waters continued; Apr. p. 17, Oct. p. 23.

Oregon marks \_\_\_\_\_ with "spaghetti" tags; July p. 43.

## King:

## Alaska:

abundance of \_\_\_\_\_ observed by SCUBA divers;

Apr. p. 13.

## catch:

at record high in 1964; Mar. p. 17.

Kodiak and westward in October 1964; Jan. p. 17.

explorations for \_\_\_\_\_ and shrimp; Dec. p. 25.

Governor names industry board; Nov. p. 14.

processing plants, two new, in operation at Kodiak; May p. 11.

production, 1964; June p. 15.

Soviet scientists observe U. S. \_\_\_\_\_ research; Oct. p. 21.

study reveals unusual "stacking" behavior of juveniles; Nov. p. 18.

tag returns from Kodiak Island area; Aug. p. 22.

U.S.S.R. ratifies agreement on fishing gear in areas off Kodiak; Feb. p. 51.

## CRAB

## King:

## Bering Sea:

## Japan:

conservation measures; Oct. p. 21.

factoryships to reach target mid-August; Oct. p. 82.

production quota, government arbitrates allocation of; Mar. p. 80.

research; Oct. p. 21.

U. S.-Japanese talks concluded on fishing in eastern area; Jan. p. 26, Feb. p. 51.

Soviet and Japanese \_\_\_\_\_ vessels visited by U. S. biologists; Sept. p. 16.

Canned, U.S.S.R. production of \_\_\_\_\_ meat from Sea of Okhotsk, 1958-64; Mar. p. 91.

## Japan:

area limitations on Gulf of Alaska trawl fishery; Oct. p. 82.

## Bristol Bay:

canned pack as of July 20, 1955; Oct. p. 82.

factoryship production; Nov. p. 63.

fleet production; Aug. p. 78.

pack as of June 5 of two factoryships; Aug. p. 78.

pot-fishing test; Nov. p. 63.

pots may be used in 1965 to fish in; Feb. p. 67.

## canned \_\_\_\_\_:

export prices increased; July p. 74.

exports; July p. 74, Nov. p. 65.

production and price trends; June p. 60.

Okhotsk Sea, fleets depart for; June p. 60.

plans trap fishing for \_\_\_\_\_ in Bristol Bay; Feb. p. 66.

production trends; Sept. p. 68.

North Pacific, Soviet-U. S. agreement on fishing on U. S. Continental Shelf; Apr. p. 46.

Pacific, western, catch quota for 1965 set by Japanese-Soviet negotiators; June p. 43.

processing, conference held on technology of; Jan. p. 26.

Soviet factoryship off Alaska violates U. S.-Soviet fishing agreement; Aug. p. 23.

## Meat:

## canned:

## Japanese exports:

July-August 1965; Dec. p. 66.

target for fiscal year 1965; July p. 80.

Maryland approves plastic container for \_\_\_\_\_;

Oct. p. 31.

recipe, \_\_\_\_\_ foo yung; May p. 120.

Northwest Pacific Fisheries Treaty, Japanese views on extending; July p. 81

Potomac River Fisheries Commission, regulations for \_\_\_\_\_ promulgated by; May p. 31.

Red, economic and marketing study of; Jan. p. 26.

## CROAKER

Bottomfish fishery in northern Gulf of Mexico, \_\_\_\_\_ is predominant in; Jan. p. 2.

Length and weight distributions analysis for \_\_\_\_\_ caught in industrial bottomfish fishery in northern Gulf of Mexico; Jan. p. 3.

## CUBA

Fisheries, Soviet aid to; Apr. p. 65.

Fishery and oceanographic research, Soviet-\_\_\_\_\_ in Gulf of Mexico and Caribbean; Oct. p. 70.

Landings, fishery, in 1963; Mar. p. 64.

Morocco's sales of canned fish to \_\_\_\_\_ increase; May p. 81.

## CUBA (cont.)

- Oceanographic study in Gulf of Mexico and South Atlantic conducted by Soviet-\_\_\_\_\_ expedition; Apr. p. 66.
- Tuna fisheries expansion; July p. 64.
- U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## CURED FISH

- Japan's export target for fiscal year 1965; July p. 80.
- Spiced and pickled fishery products, history of; Dec. p. 17.

## CURRENTS

- Sea-air \_\_\_\_\_, oceanographic conference held on dynamics of; Jan. p. 41.

## CUSTOMS, BUREAU OF

- Foreign fishery landings in U. S. ports, ruling on; Feb. p. 94.
- Groundfish fillet import tariff-rate quota for 1965; Apr. p. 93.
- Tuna canned in brine, import quota for 1965; July p. 104.

## CYPRUS

- Territorial waters, 12-mile, claimed by \_\_\_\_\_; Mar. p. 73.

## DAHOMY

- Participates in seminar on administration and planning for fisheries development; June p. 39.

## DEFENSE, DEPARTMENT OF (see DEFENSE PERSONNEL SUPPORT CENTER; DEFENSE SUBSISTENCE SUPPLY CENTER)

## DEFENSE PERSONNEL SUPPORT CENTER

- Defense Subsistence Supply Center moves to Philadelphia and consolidates with \_\_\_\_\_; Sept. p. 22.
- Fish portions, frozen raw breaded, inspection requirements amended for; Dec. p. 30.

## DEFENSE SUBSISTENCE SUPPLY CENTER

- Canned fishery product purchases: monthly data; Jan. p. 28, Feb. p. 22, Mar. p. 30, May p. 18, June p. 19, Aug. p. 35.
- 1964 summary; Mar. p. 29.
- Chilled and frozen fish, Federal specifications for; Feb. p. 41.
- Defense Personnel Support Center moves to Philadelphia and consolidates with \_\_\_\_\_; Sept. p. 22.
- Fish portions, frozen raw breaded, inspection requirements, new, announced by \_\_\_\_\_; June p. 19.
- Fresh and frozen fishery product purchases: monthly data; Jan. p. 27, Feb. p. 21, Mar. p. 29, May p. 17, June p. 19, Aug. p. 34.
- 1964 summary; Mar. p. 29.
- Inspection requirements, new, for chilled and frozen fish; July p. 21.
- Oysters, shucked, new purchasing specifications for; Apr. p. 20.
- Purchasing contract provisions announced, new; Mar. p. 30.

## DELAWARE

- Landings, fisheries, 1963; Jan. p. 37.

## DEMERSAL FISH

- Survey off Pacific northwest coast; Apr. p. 27.

## DENMARK

- Agar-agar industry, 1963; Apr. p. 68.
- Cod, fillet and fish block production short of export demand; Nov. p. 54.
- European, western, fisheries convention ratified by \_\_\_\_\_; Mar. p. 73.
- Exports of fishery products and byproducts to all countries; Feb. p. 54, May p. 64, Aug. p. 70, Oct. p. 70.
- Exports of fishery products and byproducts to U. S.; Feb. p. 54, May p. 64, Aug. p. 70, Oct. p. 71.
- Exports of fishery products: new law authorizes minimum prices for; Oct. p. 74.
- 1964 and outlook for 1965; May p. 64.
- proposed Government-industry regulation of minimum prices for; May p. 66.
- Exports: frozen fish fillets and blocks and rainbow trout, Jan.-Feb. 1965; July p. 64.
- industrial products, 1963-1964; June p. 52.
- Fiber, very light, for fishing gear developed; Nov. p. 56.
- Filleting plant, rinsing water purification process found profitable in; Feb. p. 58.
- Fisheries trends; Feb. p. 55, Apr. p. 66, May p. 64, July p. 64, Oct. p. 71.
- Fisheries trends--exports, landings, and processing; Feb. p. 54, May p. 64, Oct. p. 70.
- Fishing limits: foreign vessels charged with violations by \_\_\_\_\_; Mar. p. 61.
- new law authorizes extension of; Oct. p. 73.
- Nordic fishing organizations meet to discuss; Dec. p. 48.
- German (East) territorial waters, fishing vessels from \_\_\_\_\_ refused shelter in; Mar. p. 62.
- Greenland seal skins auctioned; Dec. p. 53.
- Imports: fishery products, 1964 and Jan.-June 1965; Nov. p. 54.
- quality controls strict for fresh fish; Nov. p. 56.
- Industrial products exports, 1963-1964; June p. 52.
- Landings, fishery: average prices higher in Jan.-June 1964; Feb. p. 56.
- in \_\_\_\_\_ and Faroe Islands in 1963; Mar. p. 63.
- Landings of fish and shellfish; Feb. p. 55, Apr. p. 66, May p. 64, July p. 64, Oct. p. 71.
- Laws, new fisheries, on fishing limits, exports, and quality; Oct. p. 73.
- North Sea fishery charts published by \_\_\_\_\_; Dec. p. 48.
- Oyster season for 1965/66 starts in Jutland; Dec. p. 53.
- Poland and \_\_\_\_\_ fishery organizations hold meetings aimed at fisheries cooperation; June p. 75.
- Polish territorial waters, salmon cutters from \_\_\_\_\_ fined for entering; Mar. p. 61.
- Price trends, ex-vessel, for selected species, Jan.-April 1965 with comparisons; Nov. p. 53.
- Processing of fishery products; Feb. p. 55, Apr. p. 66, July p. 65, Oct. p. 72.
- Quality control rules for fishery products set in new law; Oct. p. 74.
- Salmon, Baltic Sea Conservation agreement between Sweden, West Germany and \_\_\_\_\_; Nov. p. 44.
- Seal skins from Alaska included in auction of Greenland seal skins in \_\_\_\_\_; Mar. p. 73, June p. 52.
- Trawlers, freezer-type, new, built for Soviets in \_\_\_\_\_; Feb. p. 80.



## DENMARK (cont.)

- Trawling cone that can substitute for otter boards invented in \_\_\_\_; Mar. p. 40.  
 Trout, pond: exports to the United States, Jan.-June 1965; Sept. p. 60.  
 surplus leads producers to seek minimum export prices; Sept. p. 59.  
 surplus supplies for export reduced; Oct. p. 72.  
 U. S. imports of fishery products from \_\_\_\_, 1963; June p. 34.  
 Utilization of fishery landings, 1964; May p. 64.  
 Vessels, freezer-trawlers built for Soviets by shipyard in \_\_\_\_:  
 "Geizer"; July p. 95.  
 "Gletcher"; Nov. p. 73.  
 "Golfstrim"; Mar. p. 93.  
 "Pavlovo"; Sept. p. 76.  
 "Priluki"; Sept. p. 76.  
 "Skazochnik Andersen"; Apr. p. 87.  
 "Zapoljarnyj"; June p. 79.

DEPARTMENT OF THE INTERIOR (see INTERIOR, DEPARTMENT OF THE; COMMERCIAL FISHERIES, BUREAU OF; FISH AND WILDLIFE SERVICE; INDIAN AFFAIRS, BUREAU OF; and SPORT FISHERIES AND WILDLIFE, BUREAU OF)

## DIET

- Fish Makes Contribution to New York City's "Anti-Coronary Club" \_\_\_\_; Apr. p. 127.

## DISTRICT COURT, U. S.

- Shrimp fishermen, certain Gulf, held to be independent contractors for tax purposes; June p. 83.

## DOGFISH

- Record catch obtained in single tow in North Atlantic by M/V "Albatross IV"; Sept. p. 39.

## DOLPHIN

- Fish finders, \_\_\_\_ rated to be accurate; Feb. p. 113.  
 Gyration of spinner porpoise filmed as aid to marine-animal behavior studies; Apr. p. 125.  
 Porpoise or \_\_\_\_-jaw oil, uses of; Mar. p. 128.

## DOMINICAN REPUBLIC

- Salted fish trade with Canada suffers setback; Oct. p. 68.

## DRIFTERS

- Aid in studying water currents; Jan. p. 41.  
 Soviet trawler returns \_\_\_\_ released by U. S. research vessel; Nov. p. 8.

## DUKE UNIVERSITY

- Research vessel "Eastward" dedicated by \_\_\_\_; July p. 41.

## ECHO-SOUNDER

- Plankton to be studied with \_\_\_\_ during cooperative international oceanographic cruise; Nov. p. 76.  
 "Sound-pictures" of fish schools may be possible with improved \_\_\_\_; Mar. p. 45.

## ECOLOGY

- International Council for Exploration of the Sea symposium planned on \_\_\_\_ of pelagic fish species in Arctic waters; Jan. p. 59.

## ECONOMIC DEVELOPMENT ADMINISTRATION

- Area Redevelopment Administration succeeded by \_\_\_\_; Nov. p. 78.

## ECONOMIC STUDIES

- Crab, red, marketing and \_\_\_\_ undertaken; Jan. p. 26.

## ECUADOR

- Exports:  
 shrimp, 1964; Aug. p. 71.  
 spiny lobsters, 1964; Aug. p. 71.  
 tuna, 1964; Aug. p. 71.  
 Galapagos Islands fishery trends in 1963; June p. 52.  
 Processing:  
 equipment and foreign-built fishing vessels sought; Dec. p. 54.  
 plant, new, to be built in Guayaquil; Nov. p. 56.  
 Shrimp landings and exports, 1964; Aug. p. 71.  
 Spiny lobster landings and exports, 1964; Aug. p. 71.  
 Tuna:  
 canned, exports to Brazil; Mar. p. 74.  
 landings and exports, 1964; Aug. p. 71.  
 United Nations Special Fund, fishery research in \_\_\_\_, assistance given for; Apr. p. 50.  
 U. S. imports of fishery products from \_\_\_\_, 1963; June p. 35.  
 Vessels, fishing, and processing equipment from foreign suppliers needed; Dec. p. 54.

## EDIBLE FISHERY PRODUCTS

- Marketing; Jan. p. 37, Apr. p. 24, July p. 27, Oct. p. 36.

## EDUCATION

- Virginia marine science summer training program for high school students; Mar. p. 57.

## EELS

- Australia exports frozen \_\_\_\_; Dec. p. 50.  
 New Zealand exports frozen \_\_\_\_; Dec. p. 50.

## EGGS

- Fluke, fertilized \_\_\_\_ incubated at Sandy Hook Marine Laboratory; Mar. p. 33.  
 Shrimp, brown, successfully reared from \_\_\_\_ by U. S. Bureau of Commercial Fisheries scientist; June p. 81.  
 Trout \_\_\_\_, Yugoslavia and U. S. exchange; Oct. p. 17.

## ELECTRICAL FISHING

- Gulf of Mexico shrimp gear studies by \_\_\_\_ continued by "George M. Bowers"; Jan. p. 31, Feb. p. 25, May p. 21, July p. 24, Dec. p. 33.  
 Shrimp trawl \_\_\_\_ in South Atlantic studied by M/V "Oregon"; May p. 37.  
 Trawling, otter-trawl net, an experiment in \_\_\_\_ with an electric field used as an adjunct to; June p. 1.  
 U.S.S.R. \_\_\_\_ with lights and pumps; Jan. p. 93.

## EL SALVADOR

- Shrimp:  
 export tax being studied; Aug. p. 71.  
 industry trends, 1964; June p. 53.  
 United Nations Special Fund development project to aid fisheries in Central America; May p. 56.  
 U. S. imports of fishery products from \_\_\_\_, 1963; June p. 35.

**EMPLOYMENT**

Shrimp fishermen, certain Gulf, held to be independent contractors for tax purposes; June p. 83.

**EQUIPMENT NOTES**

No. 15--Airlift for Harvesting Oysters; Jan. p. 15.  
No. 16--An Exploratory Fishing and Gear Research Buoy; June p. 12.  
No. 17--Long-Line Gear Improvement - Aluminum Crimping Sleeve Prevents Hook Damage by Electrolysis; Aug. p. 19.

**ESTUARINE**

Gulf of Mexico \_\_\_\_\_ program; Mar. p. 37, June p. 24, Dec. p. 35.

**EUROPE**

Landings, fishery, in 1963; Mar. p. 62.  
Mexican shrimp exports to \_\_\_\_\_ and Asia granted tax advantage; Nov. p. 68.  
West European Fishery Conference meeting in The Hague, Sept. 1965; Dec. p. 48.

**EUROPEAN COMMON MARKET (see EUROPEAN ECONOMIC COMMUNITY)****EUROPEAN ECONOMIC COMMUNITY**

Cod, salted, Italian duty-free import quota in 1965 set by \_\_\_\_\_; May p. 69.  
Customs union, \_\_\_\_\_ Commission wants to move up timetable for; Jan. p. 55.  
EUROPECHE proposals for a common fishery policy; Nov. p. 40.  
Fishery policy decision made by \_\_\_\_\_ Commission; Feb. p. 49.  
German fishing industry recommendations for \_\_\_\_\_ fisheries policy; Dec. p. 55.  
Import quotas set for selected fishery products imported by West Germany and Belgium-Luxembourg; June p. 39.  
Landing rights in member countries; Apr. p. 48.  
Tuna, frozen, Italian duty-free import quota in 1965 set by \_\_\_\_\_; May p. 69.

**EUROPEAN FISHERIES CONVENTION**

Denmark ratifies Western \_\_\_\_\_; Mar. p. 73.

**EUROPEAN FOOD FAIRS**

U. S. firms invited to participate in \_\_\_\_\_; July p. 51.

**EUROPEAN FREE TRADE ASSOCIATION**

Ministerial Meeting in Vienna May 24, 1965, reviews policy; Aug. p. 60.  
Tariffs, industrial, reduced another 10 percent; Mar. p. 61.

**EUROPECHE**

EEC common fishery policy, \_\_\_\_\_ proposals for; Nov. p. 40.

**EXPLORATORY FISHING**

TVA commercial "rough fish" explorations, trawler purchased for; Nov. p. 34.

**EXPORTS**

Classification schedule for \_\_\_\_\_, new United States; Jan. p. 51.  
Importance of \_\_\_\_\_ in U. S. trade; May p. 7.

**EXPORTS****Fish oils:**

U. S. \_\_\_\_\_, with monthly and cumulative data; Jan. p. 36, Mar. p. 39, Apr. p. 23, July p. 26, Aug. p. 42, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.  
world \_\_\_\_\_, Jan.-June 1963-64; Feb. p. 48.  
European food fairs, U. S. firms invited to participate in; July p. 51.  
Japanese frozen fishery products other than tuna, April-August 1965; Dec. p. 66.  
Nicaragua \_\_\_\_\_ tax, new, on fishery products, Jan. p. 82.  
Processed edible fishery products; Jan. p. 50, Feb. p. 44, Mar. p. 56, May p. 47.  
Salmon roe, Japanese import from U. S.; Dec. p. 70.  
Sardines, canned, Costa Rica imports restricted by health authority; June p. 51.  
Shark fin \_\_\_\_\_ opportunity to Hong Kong; Apr. p. 36.  
Shrimp, Japanese imports, Jan.-Aug. 1964; Feb. p. 70.  
Trends in U. S. \_\_\_\_\_ of fishery products by country, 1963; Jan. p. 52.  
Tuna, canned, Japanese packers and exporters fail to make \_\_\_\_\_ agreement; Feb. p. 65.  
U. S. fishery products, 1963; Feb. p. 45.

**FACTORYSHIPS**

Japanese Bering Sea operations; Dec. p. 68.

**FAIR LABOR STANDARDS ACT**

Minimum wages, fish farming entitled to agricultural exemption under \_\_\_\_\_; Nov. p. 79.

**FAR EAST**

Soviet \_\_\_\_\_ fisheries developments; Nov. p. 72.

**FAROE ISLANDS**

Exports of frozen fish fillets, 1963-64; July p. 65.  
Fisheries trends, Nov. 1964; Feb. p. 59.  
Landings, fishery, in \_\_\_\_\_ and Denmark in 1963; Mar. p. 63.  
Norwegians desire landing rights in \_\_\_\_\_; Feb. p. 59.  
Rumanian factory trawlers off \_\_\_\_\_; Feb. p. 59.  
Tuna, Caribbean, vessel to long line in; Mar. p. 74.  
U. S. charter of \_\_\_\_\_ vessel for tuna fishing in Somali not completed; Feb. p. 59.  
West German-Faroese landings agreement; Feb. p. 59.

**FEDERAL AID**

Fish and Wildlife Restoration Act, library reference service financed by \_\_\_\_\_ funds; Nov. p. 26.  
Interior, Department of, funds apportioned to states: fiscal year 1965; Mar. p. 28.  
fiscal year 1966; Aug. p. 34.

**FEDERAL PURCHASES OF FISHERY PRODUCTS (see DEFENSE SUBSISTENCE SUPPLY CENTER)**

Canned purchases:  
monthly data; Jan. p. 28, Feb. p. 22, Mar. p. 30, May p. 18, June p. 19, Aug. p. 35.  
summary, 1964; Mar. p. 29.  
Chilled and frozen fish:  
Defense Department's new inspection requirements for; July p. 21.  
revisions to Federal specifications for; Feb. p. 41.  
Clams, raw shucked, fresh and frozen, Federal specifications proposed for; Mar. p. 30.  
Defense Subsistence Supply Center moves to Philadelphia and consolidates with Defense Personnel Support Center; Sept. p. 22.

**FEDERAL PURCHASES OF FISHERY PRODUCTS (cont.)**

Fish portions, frozen raw breaded: inspection requirements amended for; Dec. p. 30. new inspection requirements for; June p. 19.

Fresh and frozen purchases: monthly data; Jan. p. 27, Feb. p. 21, Mar. p. 29, May p. 17, June p. 19, Aug. p. 34. summary, 1964; Mar. p. 29.

Oysters: fresh and frozen shucked raw, Federal specification proposed for; Nov. p. 20. shucked, new purchasing specifications for; Apr. p. 20.

Palletized unit loads for canned tuna purchases to be required on test basis; Aug. p. 35.

Purchasing contract provisions, new, announced; Mar. p. 30.

Veterans Administration requirements during 1965; May p. 18.

**FEDERAL RESERVE BANK**

Stern trawling in New England, report issued by Boston \_\_\_\_\_ on; Oct. p. 40.

**FEDERAL SPECIFICATIONS**

Clams, raw shucked, fresh and frozen, \_\_\_\_\_ proposed for; Mar. p. 30.

**FEED INDUSTRY**

Fish meal and fish solubles find strong demand in animal \_\_\_\_\_; Feb. p. 27.

**FIJI ISLANDS**

Tuna base, Anglo-Japanese, status of; Dec. p. 54.

**FILLETING**

Danish \_\_\_\_\_ plant, rinsing water purification process found profitable in; Feb. p. 58.

**FILLETS**

Denmark's production short of export demand; Nov. p. 54.

Frozen, Denmark's exports, Jan.-Feb. 1965; July p. 64.

Groundfish import tariff-rate quota for 1965; Apr. p. 93.

Radiation preservation of fresh \_\_\_\_\_; Oct. p. 1.

**FINFISH**

Potomac River Fisheries Commission, regulations for \_\_\_\_\_ promulgated by; May p. 31.

**FINLAND**

Government assistance for fishing industry requested; May p. 67.

Law of the Sea Conventions: four ratified by \_\_\_\_\_, formulated by the 1958 United Nations Conference; July p. 57. ratified by \_\_\_\_\_; June p. 44.

**FISH**

Family of \_\_\_\_\_, new, Miami scientists discover; May p. 118.

**FISH AND WILDLIFE ACT**

Interior, Department of, amendment to \_\_\_\_\_ for extension of fishery loan program requested; Apr. p. 92.

**FISH AND WILDLIFE LIBRARY**

Interior, Department of, reference service to aid research, new; Nov. p. 26.

**FISH AND WILDLIFE SERVICE (see also COMMERCIAL FISHERIES, BUREAU OF; and INTERIOR, DEPARTMENT OF THE)**

Assistant Secretary appointed; Apr. p. 93.

Commercial Fisheries Research and Development Act regulations, proposed amended; June p. 83.

Inspection and certification procedures, U. S., for fishery products modified by minor technical amendments; Aug. p. 101.

Shrimp, frozen raw breaded, proposed revised U. S. standards for grades of; May p. 95.

Vessels, fishing, mortgage insurance procedures, vessel definition amendment proposed under; July p. 101.

**FISH BLOCKS**

Denmark's production short of export demand; Nov. p. 54.

Frozen U. S. imports by countries, 1959-64; Sept. p. 48.

Soviet cod blocks, Mass. State Legislature passes resolution on imports of; May p. 23.

**FISH CULTURE**

Lobster, spiny, artificial cultivation to be tried in Australia; Jan. p. 62.

Taiwan carp produced by artificial propagation; July p. 93.

World Symposium on Warm-Water Pond \_\_\_\_\_ to be held in May 1966 by FAO; Aug. p. 62.

**FISHERIES EXHIBITION**

Norwegian \_\_\_\_\_ held Aug. 19-29, 1965; Sept. p. 73.

United Kingdom world \_\_\_\_\_ 1965, held in London; Sept. p. 79.

**FISHERIES FAIR**

Norwegian \_\_\_\_\_ emphasizes modern techniques; Nov. p. 69.

**FISHERIES LABORATORY**

Gulf Coast game fish research laboratory for Florida; Dec. p. 31.

**FISHERIES LOANS (see LOANS)****FISHERIES RESEARCH**

Commercial \_\_\_\_\_ and Development Act regulations, proposed amended; June p. 83.

Laboratory, new \_\_\_\_\_, dedicated in Seattle; July p. 44.

**FISHERMEN**

Employment status, certain Gulf shrimp \_\_\_\_\_ held to be independent contractors for tax purposes; June p. 83, Sept. p. 83.

Medical care of commercial fishing vessel owner-operators, amendments proposed to regulations for; Jan. p. 98.

On-the-job training program for trainee commercial \_\_\_\_\_; Apr. p. 9.

**FISHERY AGREEMENT**

Crab, king, Soviet-U. S. agreement on fishing on U. S. Continental Shelf of North Pacific; Apr. p. 46.

**FISHERY LOAN PROGRAM (see LOANS)****FISHERY RESOURCE DISASTER FUNDS**  
Current status of \_\_\_\_\_; Mar. p. 97.**FISHERY TRADE FAIR**

Swedish International Fair, third, to be held at Goteborg; May p. 52.

**FISH FARMING**

Australia contributes funds to start \_\_\_\_\_ in Philippines; Sept. p. 57.  
Japan plans underwater \_\_\_\_\_ program; July p. 82.  
Minimum wages, agricultural exemption under Fair Labor Standards Act, \_\_\_\_\_ entitled to; Nov. p. 79.  
Philippines receive funds from Australia to start \_\_\_\_\_; Sept. p. 57.  
United Kingdom:  
marine \_\_\_\_\_ experiments in Scottish Bays; Nov. p. 74.  
salmon and trout \_\_\_\_\_ project planned in Scotland; Apr. p. 88.  
Washington:  
salmon:  
\_\_\_\_\_ operations in cooperation with sport fishing club; June p. 36.  
program evaluated; Oct. p. 58.

**FISH FILLETS (see FILLETS)****FISH FINDER**

Echo-sounder, improved, "sound pictures" of fish schools may be possible with; Mar. p. 45.

**FISH FLOUR (see FISH PROTEIN CONCENTRATE)****FISHING AGREEMENTS**

Crabs, king, Japan-U.S. \_\_\_\_\_ in eastern Bering Sea; Feb. p. 51.

**FISHING FLEET IMPROVEMENT ACT**

Eligibility requirements, notice of proposed amended; June p. 82.  
Subsidy, fishing vessel construction:  
hearings on applications for; Feb. p. 91, Mar. p. 98, Apr. p. 92, May p. 98, Aug. p. 100, Oct. p. 106, Nov. p. 78.  
regulations adopted; Jan. p. 99.  
Vessel:  
construction application, first, under new \_\_\_\_\_; Feb. p. 43.  
definition amendment under fishing vessel mortgage insurance procedures; Aug. p. 103.

**FISHING LIMITS**

Canada's \_\_\_\_\_, comment by Fisheries Minister on; Jan. p. 87.  
Denmark's ratification of western European Fisheries Convention does not include extension of \_\_\_\_\_; Mar. p. 73.  
European countries violations charged by several; Mar. p. 61.  
Foreign fishery landings in U. S. ports, changes in foreign \_\_\_\_\_ do not affect ruling on; Feb. p. 94.  
Guinean territorial waters extended to 130 miles; Mar. p. 75.  
Ireland's extension of \_\_\_\_\_ to 12 miles; Jan. p. 73.  
Japan:  
Government views on 12-mile \_\_\_\_\_; Dec. p. 64.

**FISHING LIMITS**

Japan:  
may ratify two conventions on law of the sea; Mar. p. 83.  
southwest 12-mile \_\_\_\_\_, foreign policy may be affected by; Dec. p. 64.  
Law of the Sea Institute established by University of Rhode Island; May p. 23.  
Nicaragua claims \_\_\_\_\_ of 200 miles; July p. 87.  
Nordic fishing organizations meet to discuss \_\_\_\_\_; Dec. p. 48.  
Norway government asks for industry views on European "6-plus-6" \_\_\_\_\_ convention; Jan. p. 82.  
United Kingdom:  
extended \_\_\_\_\_ stirs protests among French herring fishermen; Nov. p. 74.  
twelve-mile \_\_\_\_\_ established; Jan. p. 94.  
twelve-mile \_\_\_\_\_, foreign fishing privileges within new; Jan. p. 94.  
Yugoslavia's new law proclaims extended \_\_\_\_\_ and control over adjacent continental shelf resources; Aug. p. 98.

**FISHING REGULATIONS**

Anchovies, California \_\_\_\_\_ proposed; Oct. p. 24.  
Michigan proposes change in yellow perch \_\_\_\_\_; Dec. p. 32.

**FISHING VESSEL CONGRESS**

Socialist countries hold second \_\_\_\_\_; May p. 57.

**FISHING VESSEL MORTGAGE INSURANCE**

Vessel definition amendment under \_\_\_\_\_ procedures; Aug. p. 103.

**FISH KILL**

South Carolina \_\_\_\_\_; Mar. p. 53, Sept. p. 46.

**FISH LADDER(S)**

Washington, Cowlitz River, rock slide at Mayfield Dam \_\_\_\_\_ interferes with salmon migration; Mar. p. 57.

**FISH MEAL (see also INDUSTRIAL FISHERY PRODUCTS)**

Africa, West, outlook, \_\_\_\_\_ industry, and general fisheries situation; Feb. p. 82.  
Alewife in Lake Michigan used for \_\_\_\_\_; Aug. p. 38.  
Angola, \_\_\_\_\_ plant in; Nov. p. 45.  
Canadian exports, 1963-64; July p. 61.  
Canary Islands plants restart processing; Feb. p. 53.  
Chile:  
anchoveta shortage, \_\_\_\_\_ industry hurt by; May p. 63, June p. 50, Aug. p. 69.  
exports; Jan. p. 71, July p. 64.  
industry trends:  
first quarter 1965; July p. 63.  
fourth quarter 1965; Apr. p. 64.  
plant capacity; Jan. p. 71.  
production:  
continued at low level in May 1965; Sept. p. 59.  
costs; Jan. p. 71.  
estimate for 1964 and outlook for 1965; Jan. p. 71.  
relief measures approved for depressed industry; Oct. p. 69.  
Demand strong for \_\_\_\_\_ in animal feed industry; Feb. p. 27.  
Exports for selected countries; Feb. p. 52, May p. 49, June p. 40, July p. 55, Aug. p. 60, Sept. p. 55, Oct. p. 61, Nov. p. 40, Dec. p. 47.

## FISH MEAL (cont.)

- France's production, 1964; Oct. p. 74.  
 German Federal Republic trends for 1964 and outlook for 1965; June p. 54.  
 Imports, U. S.:  
   annual, 1963-64; Apr. p. 22.  
   monthly and cumulative data; Jan. p. 35, Mar. p. 40, Apr. p. 22, July pp. 26, 27, Aug. pp. 41, 42, Sept. pp. 29, 30, Oct. pp. 35, 36, Nov. pp. 23, 24, Dec. pp. 36, 37.  
 Japan:  
   Alaska pollock to be bought from U.S.S.R., Oct. p. 83.  
   Bering Sea production target for 1965; June p. 61.  
   domestic trends, Sept. p. 69.  
   factoryship(s):  
     in Bering Sea meet production targets; Dec. p. 68.  
     to buy pollock for \_\_\_\_\_ from Soviet fishing vessels; Mar. p. 83.  
   importation of 71,000 tons of \_\_\_\_\_; Jan. p. 80.  
   imports and exports; May p. 76, June p. 61.  
   market trends; June p. 61, July p. 76.  
   Okhotsk Sea, joint Soviet-Japanese operations successful in; May p. 76.  
   pollock for \_\_\_\_\_, hearing on imports from U.S.S.R. of; July p. 82.  
   prices increase for domestic offerings of factory-ship production; Sept. p. 69.  
 Panama's industry trends, 1964 and early 1965; Oct. p. 91.  
 Peru:  
   industry trends; Jan. p. 83, Feb. p. 77, June p. 73, July p. 89.  
   output continues heavy in spite of fishing uncertainties in March 1965; June p. 72.  
   production:  
     in 1965 may be curtailed by conservation measures and labor dispute; May p. 85.  
     trends and outlook, early 1965; June p. 72.  
     situation, late August 1965; Nov. p. 70.  
   Processing plant, compact, built by Norwegians; Aug. p. 36.  
   Production for selected countries; Feb. p. 52, May p. 49, June p. 40, July p. 55, Aug. p. 60, Sept. p. 55, Oct. p. 61, Nov. p. 40, Dec. p. 47.  
 South Africa:  
   capacity on the Cape, new licenses expand; Aug. p. 95.  
   production, 1959-1964; June p. 77.  
   production, January-March 1965; Aug. p. 93.  
   Walvis Bay products, producers report strong demand for; Jan. p. 89.  
   world market trends cause concern; Aug. p. 93.  
 Spain's production and foreign trade, 1964; Oct. p. 96.  
 Substitute for protein in \_\_\_\_\_, petroleum industry experiments to produce; Aug. p. 93.  
 Sweden:  
   imports, 1963-64; July p. 92.  
   industry trends, 1963/64 and 1964/65; July p. 92.  
   U.S.S.R., Okhotsk Sea, joint Soviet-Japanese operations successful in; May p. 76.  
 United Kingdom production, 1964; May p. 88.  
 U. S. production:  
   annual, 1963-64; Apr. p. 22.  
   monthly and cumulative data; Jan. p. 35, Mar. p. 39, Apr. p. 22, June p. 26, July pp. 26, 27, Aug. pp. 41, 42, Sept. pp. 29, 30, Oct. pp. 35, 36, Nov. pp. 23, 24, Dec. pp. 36, 37.

## FISH MEAL

- Utilization in New England poultry rations, level of; Mar. p. 38.  
 World production; Jan. p. 55, Mar. p. 60, Apr. p. 47, May p. 49, July p. 55, Aug. p. 61, Oct. p. 61, Nov. p. 41, Dec. p. 47.  
 Yugoslavia's imports, 1962-1963 and Jan.-June 1964; July p. 97.

## FISH MEAL EXPORTERS' ORGANIZATION

- Production and exports; Feb. p. 52, May p. 49, July p. 55, Sept. p. 55, Nov. p. 40.

## FISH MIGRATIONS

- Pipes to move salmon, use studied of; May p. 33.  
 Sonar tags aid \_\_\_\_\_ studies; Jan. p. 54.

## FISH 'N SEAFOOD PARADE

- Campaign, 1965, sell up to higher profits is theme of; Aug. p. 44.  
 Marketing; Nov. p. 26.  
 Nationwide promotions planned for October 1965; Oct. p. 39.

## FISH OIL (also see INDUSTRIAL FISHERY PRODUCTS)

- Africa, West, industry outlook and general fisheries situation; Feb. p. 82.  
 Angola's production and exports, 1963-64 and outlook for 1965; July p. 60.  
 Australian foreign trade in \_\_\_\_\_, fiscal years 1962/63 and 1963/64; Sept. p. 57.  
 Canada:  
   exports, 1963-64; July p. 61.  
   production, use, and foreign trade, 1963-64; July p. 62.  
 Chile:  
   exports; Jan. p. 71, July p. 64.  
   plant capacity; Jan. p. 71.  
   production:  
     costs; Jan. p. 71.  
     estimate for 1964 and outlook for 1965; Jan. p. 71.  
 France's production, 1964; Oct. p. 74.  
 German Federal Republic trends for 1964 and outlook for 1965; June p. 54.  
 Italy's foreign trade, 1963-64; July p. 67.  
 Japan:  
   production, 1960-64; Oct. p. 85.  
   production of fish-body oil, liver oil, and squid oil, 1956-64; Aug. p. 87.  
   supply and disposition, 1963-64 and 1965 forecast; July p. 77.  
 Mexican imports, 1963-64; Sept. p. 72.  
 Norway:  
   herring \_\_\_\_\_ production; Feb. p. 75, Oct. p. 90.  
   supply and disposition 1964, with comparisons; June p. 70.  
 Panama's industry trends, 1964, and early 1965; Oct. p. 91.  
 Peru:  
   exports; Sept. p. 74, Nov. p. 70.  
   industry trends and outlook, October 1964; Feb. p. 77.  
   supply and disposition 1961-64; July p. 89.  
 South Africa:  
   production; June p. 77, Aug. p. 93, Nov. p. 71.  
   Walvis Bay products, producers report strong demand for; Jan. p. 90.  
 Spain's production and foreign trade, 1964; Oct. p. 96.



**FISH OIL (cont.)****Sweden:**

foreign trade, 1963/64; July p. 92.  
industry trends, 1963/64 and 1964/65; July p. 92.

**United States:**

exports, with monthly and cumulative data; Jan. p. 36, Mar. p. 39, Apr. p. 23, July p. 26, Aug. p. 42, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.  
production:  
annual, 1963-64; Apr. p. 22.  
monthly and cumulative data; Jan. p. 36, Mar. p. 39, Apr. p. 22, June p. 26, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.  
trends 1964 and outlook for 1965; Jan. p. 34.

**World:**

exports; Feb. p. 48, Aug. p. 61.  
production, 1960-64 and forecast 1965; Apr. p. 47, Nov. p. 43.  
Yugoslavia's imports, 1962-63 and Jan.-June 1964; July p. 97.

**FISH PASSAGE**

Canada, fishway being built at Meziadin Falls in British Columbia; Nov. p. 51.

**FISH PORTION(S)****Inspection requirements:**

for frozen raw breaded \_\_\_\_\_ amended by Defense Personnel Support Center; Dec. p. 30.

new for frozen raw breaded \_\_\_\_\_ announced by Defense Subsistence Supply Center; June p. 19.

Recipe for \_\_\_\_\_ with almond cheese sauce; Mar. p. 132.

Standards, U. S., for grades of frozen raw breaded \_\_\_\_\_ modified by minor technical amendment; Aug. p. 101.

U. S. production; Jan. p. 28, May p. 19, June p. 20, Sept. p. 23, Oct. p. 31.

**FISH PROTEIN CONCENTRATE**

Hake, red, North Atlantic, studied for production of \_\_\_\_\_; Aug. p. 36.

**Morocco:**

new plant to produce \_\_\_\_\_ in; July p. 87.  
to produce \_\_\_\_\_ for human consumption; June p. 65.

Solvent-extraction processing unit, new model-scale in operation; Aug. p. 36.

South Africa develops \_\_\_\_\_; July p. 91.

**FISH SCREEN**

Migrant fish guided by new type velocity-matching traveling \_\_\_\_\_; May p. 32.

**FISH SOLUBLES (also see INDUSTRIAL FISHERY PRODUCTS)**

Animal feed industry, demand strong for \_\_\_\_\_ and fish meal in; Feb. p. 27.

Growth-promoting ability of \_\_\_\_\_ in chick feed confirmed; Jan. p. 34.

**United States:****imports:**

annual, 1963-64; Apr. p. 22.  
monthly and cumulative data; Jan. p. 36, Mar. p. 40, Apr. p. 22, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.

**production:**

annual, 1963-64; Apr. p. 22.

**FISH SOLUBLES****United States:****production:**

monthly and cumulative data; Jan. p. 35, Mar. p. 39, Apr. p. 22, June p. 26, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.

**FISH SPECIES IDENTIFICATION**

Processed products, new and quick method developed for; July p. 21.

**FISH SPOTTING**

Balloons tested for \_\_\_\_\_; May p. 18.

**FISH STICKS**

Norway, production plant in Trondheim; Feb. p. 75.

U. S. production; Jan. p. 28, May p. 19, June p. 20, Sept. p. 23, Oct. p. 31.

**FISH STOCKING**

Trout, rainbow, fingerlings planted in western lake by airplane; Dec. p. 111.

**FLORIDA**

Bottomfish trawling potential surveyed off west coast by M/V "Hernan Cortez"; Aug. p. 39, Oct. p. 33.

Exploratory fishing and fishery investigations by "Hernan Cortez"; Mar. p. 32.

Gear fishing development base in \_\_\_\_\_, private firm plans to open; May p. 29.

Landings and trends, 1964; Sept. p. 23.

Landings, fisheries, 1963; Mar. p. 31.

Legislative actions affecting fisheries; Sept. p. 47.

Processed fishery products; Mar. p. 32, Sept. p. 24.

"Red tide," phytoplankton and chemical studies related to; Mar. p. 32.

Research laboratory, game fish, for Gulf coast; Dec. p. 31.

Seaweed studies; Mar. p. 32.

Shrimp, brown, stocks studied off east coast; June p. 33.

Swordfish long-lining off east coast of \_\_\_\_\_ by M/V "Oregon"; Oct. p. 52.

University of Miami, new marine laboratory for; Apr. p. 20.

Venezuelan shrimp industry opposes entry of \_\_\_\_\_ firm; Nov. p. 76.

Vessel, fishing, subsidy hearings on applications from \_\_\_\_\_; Nov. p. 78.

**FLOUNDER**

Yellowtail, New England landings in 1964 and forecast for 1965; Feb. p. 30.

**FLUKE**

Eggs, fertilized, incubated at Sandy Hook Marine Laboratory; Mar. p. 33.

**FOOD AND AGRICULTURE ORGANIZATION**

Boats, fishing, 3rd International Technical Meeting on; May p. 50, Dec. p. 47.

Department of Fisheries within \_\_\_\_\_ recommended by Council; Oct. p. 61.

Fishery experts needed for technical assistance in many countries; Sept. p. 108, Dec. p. 110.

**Indo-Pacific Fisheries Council:**

fishery problems discussed at 11th session of; Jan. p. 56.

highlights of 11th session; Mar. p. 64.

## FOOD AND AGRICULTURE ORGANIZATION (cont.)

## Indo-Pacific Fisheries Council (cont.):

invited to hold 12th Session in Hawaii in 1966; Oct. p. 62.

recommends fisheries division of \_\_\_\_\_ be upgraded; Mar. p. 65.

symposium on increasing fish consumption held at 11th session; Apr. p. 48.

Latin America, Eighth Regional Conference for; July p. 57.

Marine resources research advisory committee meets in Rome; May p. 51, June p. 40.

## Mediterranean General Fisheries Council:

annual session, 8th, held in Rome; July p. 56.

sardine-tagging program in Mediterranean; Aug. p. 63.

tuna working party set up at 8th annual session; Aug. p. 63.

Mediterranean Sea, plan for future development of fisheries urged; July p. 56.

Pakistan, catfish in Ganges Delta area, \_\_\_\_\_ expert finds great schools of; Apr. p. 81.

Permanent Committee on Fisheries, Council of \_\_\_\_\_ recommends establishment of; Oct. p. 61.

Pesticides, \_\_\_\_\_ asks tight control of; Mar. p. 95.

Philippine purse-seine fishery being developed with aid of \_\_\_\_\_ expert; Jan. p. 84.

Sardine tagging seminar held by \_\_\_\_\_; Jan. p. 56.

Technical meeting (3rd) on fishing boats, Seattle man appointed as chairman; July p. 57.

Tuna, Atlantic, preliminary draft convention for the conservation of; Sept. p. 52.

United Nations Special Fund:

Brazil's fishery assistance administered by \_\_\_\_\_; Oct. p. 64.

fishery research in low-income countries administered by \_\_\_\_\_; Apr. p. 49.

Philippine fishery research administered by \_\_\_\_\_; Oct. p. 64.

Vessel designing training course given in Sweden; Oct. p. 62.

Vessels, Third International Technical Meeting on Fishing Boats; Aug. p. 128.

Whaling, global regulation urged of; Sept. p. 52.

World fishery trade in 1963; June p. 41.

World Symposium on Warm-Water Pond Fish Culture to be held in May 1966; Aug. p. 62.

## FOOD AND DRUG ADMINISTRATION

Consumer protection stressed at 8th annual conference of \_\_\_\_\_; Mar. p. 96.

Shrimp, frozen breaded:

definitions and standards of identity for; May p. 91.

definitions and standards of identity, tentative order established by \_\_\_\_\_; Feb. p. 85.

Sodium nitrite, proposal to use as a preservative and color fixative in canned crab meat; Nov. p. 78.

Species, fish, identification, starch gel method of \_\_\_\_\_ recommended for adoption; Jan. p. 48.

## FOOD CONSUMPTION

Index of per capita \_\_\_\_\_ revised by Department of Agriculture; Jan. p. 25.

## FOREIGN FISHING ACTIVITIES

Alaska, Soviet and Japanese fishing activity in 1964 off; May p. 1.

## FOREIGN TRADE, U. S. (also see EXPORTS; IMPORTS)

## Exports:

classification schedule, new U.S.; Jan. p. 51.

## FOREIGN TRADE, U. S.

## Exports:

fishery products by country, 1963, trends in U. S.; Jan. p. 52.

opportunity for shark fins to Hong Kong; Apr. p. 36.

Imports of canned tuna in brine under quota; Jan. p. 50, Feb. p. 44, Mar. p. 55, Apr. p. 40, May p. 46, June p. 34, July p. 51, Aug. p. 57, Sept. p. 47, Oct. p. 57, Nov. p. 38, Dec. p. 44.

Processed edible fishery products; Jan. p. 50, Feb. p. 44, Mar. p. 56, May p. 47.

U. S. fishery products, 1963; Feb. p. 44.

## FORMOSA

Construction bids for tuna vessels for \_\_\_\_\_ awarded in Japan; Jan. p. 80.

## FRANCE

Continental Shelf, Convention on the, accession deposited by \_\_\_\_\_; Dec. p. 48.

European Economic Community, fish landing rights in member countries, \_\_\_\_\_ protests regulation on; Apr. p. 48.

Fishing limits, extended British, stir protests among herring fishermen; Nov. p. 74.

Fish meal and oil production and imports, 1964; Oct. p. 74.

Irradiation preservation of fishery products, studies of; July p. 58.

Landings, fishery, in 1963; Mar. p. 63.

Sardine price and landing trends, 1964; Nov. p. 57.

Tuna:

price and landing trends, 1964; Nov. p. 57.

yellowfin fishery in the eastern tropical Atlantic; Aug. p. 7.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## Vessels:

fishing fleet for Korea being built by French-Italian consortium, progress on; Sept. p. 71.

for firm in \_\_\_\_\_ to be built in Poland; Oct. p. 94.

tuna, five being built for Senegal; Nov. p. 70.

## FREEZING FISH AT SEA

Brine-\_\_\_\_\_ system aboard fishing vessels, Japanese firm to experiment with; June p. 62.

United Kingdom freezer-trawler "Victory" lands blocks of whole frozen fish; Sept. p. 77.

## FRENCH GUIANA

Shrimp trawlers, three new, operate from \_\_\_\_\_; May p. 45.

## FRENCH SOMALILAND

Tuna explorations in the Gulf of Aden; Feb. p. 60.

## FRESH AND FROZEN FISHERY PRODUCTS

## Defense Department purchases:

annual summary, 1964; Mar. p. 29.

monthly data; Jan. p. 27, Feb. p. 21; Mar. p. 29, May p. 17, June p. 19, Aug. p. 34.

new inspection requirements for; July p. 21.

## FRESH FISH

Irradiation preservation will extend shelf life of \_\_\_\_\_; Oct. p. 1.

## FROG LEGS

India's exports of \_\_\_\_\_, January-May 1964; Jan. p. 73.

**FROZEN FISH**

Specifications, Federal, DSSC distributes revisions to; Feb. p. 41.  
Sweden's packaged \_\_\_\_\_ market trends; May p. 87.

**FROZEN FISHERY PRODUCTS**

United Kingdom supply and disposition of processed \_\_\_\_\_, 1963-1964 and 1954; July p. 95.

**FROZEN FOOD**

Packers convention held in San Francisco; Apr. p. 20.  
Regulations for New York State postponed; Mar. p. 42.

**FUR SEALS**

Interior, Department of:  
processing, promoting and selling Alaska \_\_\_\_\_ skins, contract awarded by; July p. 101.  
research to improve processing techniques for Alaska \_\_\_\_\_ skins, contract awarded by; Nov. p. 79.  
Pribilof Islands skin harvest, 1965; Dec. p. 31.  
Prices for Alaska skins at spring 1965 auction; June p. 21.

**GABON**

Participates in seminar on administration and planning for fisheries development; June p. 39.

**GALAPAGOS ISLANDS**

Fishery trends in 1963; June p. 52.

**GAME FISH (also see SPORT FISH)**

Research laboratory for Florida; Dec. p. 31.  
Research vessel "Dolphin," new, to study coastal resources; Jan. p. 48.

**GATT (see GENERAL AGREEMENT ON TARIFFS AND TRADE)****GEAR**

Anchor, folding, produced in Norway; Nov. p. 70.  
Buoy, exploratory fishing and \_\_\_\_\_ research; June p. 12.  
Echo-sounder, improved, "sound pictures" of fish schools may be possible with; Mar. p. 45.  
Fiber, very light, developed by Danish firm; Nov. p. 56.  
Fishing \_\_\_\_\_ development base in Florida, private firm plans to open; May p. 29.  
Lobster trap, dome-shaped, designed with unique features by Canadian firm; Jan. p. 67.  
Long-line:  
Japan develops improved method for setting and retrieving \_\_\_\_\_; Dec. p. 72.  
swordfish vessels, new, "Chilmark Sword" and "Chilmark Voyager" use \_\_\_\_\_; Jan. p. 49.  
Marking devices for use with shipboard radar tested off Alaska; Feb. p. 14.  
Plankton net tests made in Hawaiian waters; Oct. p. 27.  
Purse-seining gear, Japanese adopt improved; Jan. p. 75.  
Shrimp, Gulf of Mexico studies continued by M/V "George M. Bowers"; Dec. p. 33.  
South Africa:  
lampara-seine nets in Cape shoal fishery may be replaced by purse-seine nets; Jan. p. 90.  
purse-seine nets may revolutionize Cape shoal fishery; Jan. p. 90.

**GEAR**

Trawl:  
"Cobb" pelagic, construction and operation of the; (1964); Oct. p. 10.  
evaluation studies continued by M/V "Delaware"; Sept. p. 36, Nov. p. 30.  
pelagic:  
midwater, tested in Washington State Waters; Feb. p. 36.  
modified, being tested by M/V "St. Michael"; Oct. p. 44.  
sampling high-seas salmon populations, capability of; Feb. p. 1.  
Trawling cone that can substitute for otter boards invented in Denmark; Mar. p. 40.  
U.S.S.R., electrical fishing with lights and pumps; Jan. p. 93.

**GENERAL AGREEMENT ON TARIFFS AND TRADE (GATT)**

Kennedy Round and the Trade Expansion Act; May p. 7.  
Twenty-second session meets in Geneva; May p. 54.

**GEORGES BANK**

Polish:  
fisheries expansion on \_\_\_\_\_; Dec. p. 78.  
research vessel conducts survey on \_\_\_\_\_; Oct. p. 94.  
trawler fishes for hake on \_\_\_\_\_; May p. 85.  
Soviet fishing activity on \_\_\_\_\_; Feb. p. 30, Mar. p. 43, Apr. p. 25, May p. 24, June p. 27, July p. 30, Aug. p. 45, Sept. p. 34, Oct. p. 41, Nov. p. 32, Dec. p. 40.

**GEORGIA**

Fishery landings and trends, 1964; Sept. p. 25.

**GERMAN FEDERAL REPUBLIC**

Cod blocks from Soviet Union reexported to other countries; Apr. p. 85.  
European Common Market fisheries policy, industry recommendations for; Dec. p. 55.  
Factoryships built in \_\_\_\_\_ for Soviets; Nov. p. 73.  
Faroeese-\_\_\_\_\_ landings agreement; Feb. p. 59.  
Fish meal trends for 1964 and outlook for 1965; June p. 54.  
Fish oil trends for 1964 and outlook for 1965; June p. 54.  
Import tariff quotas for selected fishery products granted \_\_\_\_\_ by European Common Market; June p. 39.  
Landings, fishery, in 1963; Mar. p. 63.  
Loans and grants for fishing industry, coastal States ask increase in; Sept. p. 60.  
North Sea fishery charts published by \_\_\_\_\_; Dec. p. 48.  
Polish territorial waters, salmon cutters from \_\_\_\_\_ fined for entering; Mar. p. 61.  
Prices, minimum ex-vessel, subject of conflicting industry recommendations as regards fisheries policy for European Common Market; Dec. p. 55.  
Salmon, Baltic Sea conservation agreement between Denmark, Sweden, and \_\_\_\_\_; Nov. p. 44.  
Seals, harp and hood, \_\_\_\_\_ adheres to Protocol concerning; Sept. p. 52.  
South Africa, exploratory vessel may be sent by \_\_\_\_\_ to waters off; Dec. p. 80.  
Studies of irradiation preservation of fishery products; July p. 58.  
Subsidies for fishing industry, coastal States ask increase in; Sept. p. 60.



## GERMAN FEDERAL REPUBLIC (cont.)

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## GERMANY, EAST

Danish fishing limits, fishing vessels from \_\_\_\_\_ charged with interfering with Danish fishermen inside; Mar. p. 61.  
Fishing industry review and production targets; Apr. p. 68.  
Greenland waters, stern trawler from \_\_\_\_\_ warned in; Mar. p. 62.  
Imports from Norway, 1964 and 1965; Apr. p. 80.  
Landings, fishery, in 1963; Mar. p. 63.  
Soviets contract for new series of large stern trawlers; Oct. p. 97.  
Territorial waters of \_\_\_\_\_, Danish fishing vessels refused shelter in; Mar. p. 62.  
U.S.S.R., Tropic class stern trawler delivered by \_\_\_\_\_; June p. 80.  
Vessels, sardine, to be delivered to Zanzibar by \_\_\_\_\_; Apr. p. 91.  
Vessel, fishing, second congress of socialist countries attended by \_\_\_\_\_; May p. 57.

## GENERAL FISHERIES COUNCIL FOR THE MEDITERRANEAN (see MEDITERRANEAN, GENERAL FISHERIES COUNCIL FOR THE)

## GHANA

Fishery research centered on biology of sardine; Apr. p. 69.  
Fishing industry in \_\_\_\_\_ favored by certain tax exemptions; Apr. p. 69.  
Fish meal and oil potential and general fisheries situation; Feb. p. 83.  
Japanese firm offers technical fishery assistance; Nov. p. 58.  
Sardines, canned, industry outlook; Feb. p. 82.  
Training programs to provide officers for foreign-built fishing vessels; May p. 67.  
Trawler(s):  
foreign built, received by \_\_\_\_\_; Jan. p. 72.  
new Japanese-built, delivered at Tema; May p. 68.  
new, received from Soviet shipyard; Jan. p. 72.  
stern, second completed for \_\_\_\_\_ by Japan; Feb. p. 60.  
stern, \_\_\_\_\_ receives more from Norway; May p. 67, Sept. p. 62.  
Trawling off the South Africa Republic; Dec. p. 80.  
United Nations Special Fund development project to establish fishery research unit in \_\_\_\_\_; May p. 56.

## GILL NETS (see NETS)

## GREAT LAKES

Canada:  
lamprey control experiment group headquarters relocates; Sept. p. 58.  
landings, commercial fishery, in first half of 1964; Mar. p. 33.  
Ontario, Province of, landings higher in first half of 1965; Dec. p. 52.  
Commercial fishing regulations, changes proposed in; Aug. p. 37.  
Fisheries landings, 1963; Jan. p. 29.  
Lake Michigan:  
alewife population continues to increase; Aug. p. 38.  
lake trout restocking program, 1965; May p. 20.

## GREAT LAKES

## Lake Superior:

lake trout planting program, 1964; Mar. p. 33.  
trawling studies continued; Feb. p. 22.

## Lake trout:

and salmon restocking work; Mar. p. 33.  
rehabilitation program; Oct. p. 31.  
restocking program in upper lakes, 1965; Aug. p. 37.  
study, Michigan requests Federal funds for; Aug. p. 44.

Landings, U. S.-Canadian commercial fishery, in 1964; Aug. p. 38.

## Michigan:

commercial fishing regulations, changes approved in; Nov. p. 26.  
proposes change in yellow perch commercial fishing regulations; Dec. p. 32.  
striped bass, plans to introduce in southern waters; Dec. p. 32.  
Reduction process to convert raw fish into thiamine-free procas cake; Dec. p. 13.  
Salmon stocking work continues; Apr. p. 21.  
Sea lamprey eradication program in \_\_\_\_\_ shows good results; Mar. p. 47.  
United States commercial fishery landings in \_\_\_\_\_ lower in first half of 1964; Mar. p. 33.

## GREAT LAKES FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

Lake Huron trawling studies by M/V "Kaho"; Sept. p. 28, Oct. p. 32.

## Lake Michigan:

seasonal distribution and abundance studies of alewife, chub, and yellow perch continued by M/V "Kaho"; Jan. p. 30, July p. 22.  
trawling studies continued by M/V "Kaho"; Sept. p. 27, Nov. p. 20.  
Lake Superior trawling studies continued by M/V "Kaho"; Feb. p. 22, Sept. p. 25.

## GREAT LAKES FISHERY COMMISSION

Annual meeting, 10th; Sept. p. 51.  
Lake trout restocking program for Lake Michigan, 1965; May p. 20.

## Sea lamprey:

controls extension approved by \_\_\_\_\_; Feb. p. 50.  
eradication program, \_\_\_\_\_ commended for results of; Mar. p. 47.

## GREAT LAKES FISHERY INVESTIGATIONS

Sea lamprey, chemical treatment of streams continued; June p. 21.

## GREECE

Exports of frozen fish by freezer-trawler company, Sept. p. 1964; Mar. p. 74.  
Fisheries landings and trends, 1964; June p. 55.  
Freezer-trawler:  
fishery trends, Jan.-June 1965; Dec. p. 55.  
landings, Jan.-Sept. 1964; Mar. p. 74.  
Libyan waters, Greek vessels licensed to operate in; Jan. p. 81.  
Sponge landings, 1964; June p. 55.  
Vessels:  
factory trawler acquired by \_\_\_\_\_ firm from Soviets; Dec. p. 56.  
fishing fleet, offshore, 1963; Feb. p. 60.  
freezer-trawlers, nine additional, for \_\_\_\_\_ fleet in 1965; Mar. p. 74.

## GREEN BAY

Great Lakes trawling studies continued by M/V "Kaho"; Nov. p. 20.

## GREENLAND

Fishing limits of \_\_\_\_\_, stern trawler from East Germany warned about entering; Mar. p. 62.  
Landings, fishery, in 1963; Mar. p. 64.  
Salmon, Atlantic fishery in offshore waters; Nov. p. 58.  
Seal skins from \_\_\_\_\_ auctioned in Denmark; Mar. p. 73, June p. 52, Dec. p. 53.

## GROUND FISH

Alaska, Gulf of, Japanese \_\_\_\_\_ catches in; Aug. p. 22.  
Electrical fishing for \_\_\_\_\_ with an electric field used as an adjunct to an otter-trawl net, an experiment in; June p. 1.  
Fillets, import tariff-rate quota for 1965; Apr. p. 93.  
Frozen, Icelandic export stocks for U. S.; May p. 68, June p. 56, July p. 66, Aug. p. 72, Sept. p. 63, Nov. p. 59, Dec. p. 56.  
New England landings in 1964 and forecast for 1965; Feb. p. 29.  
North Atlantic distribution and abundance studied by M/V "Albatross IV"; Mar. p. 44, July p. 34, Oct. p. 42.

## GUAM

Japanese:  
tuna purse-seiner operation off \_\_\_\_\_ cancelled; Aug. p. 76.  
tuna purse-seiner to fish off \_\_\_\_\_ in November; May p. 73.

## GUATEMALA

Shrimp, frozen, exports, 1964; Aug. p. 72.  
United Nations Special Fund development project to aid fisheries in Central America; May p. 56.

## GUINEA

Territorial waters of 130 miles claimed; Mar. p. 75.

## GUINEA, GULF OF

Oceanographic survey in \_\_\_\_\_ by R/V "Geronimo"; Jan. p. 43, July p. 40.  
Shrimp potential of eastern \_\_\_\_\_; Nov. p. 9.  
Tuna, Japanese fleet fishing in \_\_\_\_\_; Feb. p. 63.

## GULF EXPLORATORY FISHERY PROGRAM

Gulf of Mexico tuna observations on cruises of the exploratory fishing vessel "Oregon," 1950-63; Jan. p. 7.

## GULF FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

Florida west coast bottom-trawl fish potential surveyed; Aug. p. 39, Oct. p. 33.  
Shrimp gear studies continued; Jan. p. 31, Feb. p. 25, May p. 21, July p. 24, Sept. p. 28, Dec. p. 33.  
Tropical Atlantic and Caribbean fishery resource survey continued; Jan. p. 19.

## GULF FISHERY INVESTIGATIONS

Bottomfish commercial catch sampling; Mar. p. 38, June p. 23.  
Ecology of western Gulf estuaries; Mar. p. 37, June p. 24, Dec. p. 35.  
Estuarine program; Mar. p. 37, June p. 24, Dec. p. 35.  
Growth and survival studies; Dec. p. 36.

## GULF FISHERY INVESTIGATIONS

Shrimp:  
bait (juvenile) fisheries and postlarval abundance, surveys of; Mar. p. 36, June p. 23, Dec. p. 35.  
behavior and ecological parasitology; Dec. p. 35.  
biology program; Mar. p. 35, June p. 22, Dec. p. 34.  
commercial catch sampling; Mar. p. 36, Dec. p. 35.  
cultivation under seminatural conditions; June p. 23, Dec. p. 34.  
distribution studies; Jan. p. 32, Feb. p. 25, Mar. p. 35, Apr. p. 21, May p. 22, June p. 25, July p. 25, Aug. p. 40, Sept. p. 29, Nov. p. 22, Dec. p. 33.  
larvae studies; Mar. p. 35, June p. 22, Dec. p. 34.  
migrations, growth, and mortality; Mar. p. 37, June p. 24, Dec. p. 35.

## GULF OF ADEN

French Somaliland tuna explorations in \_\_\_\_\_; Feb. p. 60.

## GULF OF ALASKA (see ALASKA)

## GULF OF MAINE

Zooplankton and larval lobster distribution studied by M/V "Rorqual"; Nov. p. 31.

## GULF OF MEXICO

Bottomfish:  
commercial catch sampling; Mar. p. 38, June p. 23.  
industrial fishery in northern \_\_\_\_\_, 1959-62, review of; Jan. p. 1.  
Croaker is predominant in bottomfish fishery in northern \_\_\_\_\_; Jan. p. 2.  
Cuban-Soviet fishery and oceanographic research; Oct. p. 70.  
Ecology of western \_\_\_\_\_ estuaries; Mar. p. 37, June p. 24, Dec. p. 35.  
Research laboratory, game fish, for Florida; Dec. p. 31.  
Shrimp:  
distribution studies; Jan. p. 32, Feb. p. 25, Mar. p. 35, Apr. p. 21, May p. 22, June p. 25, July p. 25, Aug. p. 40, Sept. p. 29, Nov. p. 22, Dec. p. 33.  
gear studies; Jan. p. 31, Feb. p. 25, May p. 21, Dec. p. 33.  
Tuna observations in \_\_\_\_\_ of the exploratory fishing vessel "Oregon," 1950-63; Jan. p. 7.

## GULF STATES

Landings, fishery, 1963; Feb. p. 26.

## GULF STATES MARINE FISHERIES COMMISSION

Annual meeting in Miami, Fla.; Nov. p. 22.  
Spring meeting held in Mobile, Ala.; Apr. p. 22.

## GULF STREAM

Oceanographic survey of \_\_\_\_\_ to be made by scientists; Nov. p. 100.

## HADDOCK

Fillets, irradiation preservation of fresh \_\_\_\_\_; Oct. p. 1.  
New England landings in 1964, and forecast for 1965; Feb. p. 29.  
North Atlantic distribution and abundance in fall studied by M/V "Albatross IV"; Mar. p. 44.

## HAITI

Fish processing plant, new, construction completed; Feb. p. 60.

## HAKE

- Japan, canned \_\_\_\_\_ marketing project postponed; Feb. p. 71.  
 North Pacific population survey continued; May p. 27, Aug. p. 47, Sept. p. 40, Oct. p. 45, Dec. p. 41.  
 Pacific Northwest fishing survey on \_\_\_\_\_ to be made by M/V "John N. Cobb"; Apr. p. 28.  
 Polish trawler fishes Georges Bank for \_\_\_\_\_; May p. 85.  
 Red, fish meal concentrate, production from North Atlantic \_\_\_\_\_ being studied; Aug. p. 36.  
 South Africa, trawling for \_\_\_\_\_ by Spanish vessels off, Sept. 1965; Dec. p. 81.  
 Spain:  
   frozen \_\_\_\_\_ wins consumer acceptance; Sept. p. 75.  
   trawl fishery for \_\_\_\_\_ off South Africa, Sept. 1965; Dec. p. 81.  
 Washington State coastal waters and Puget Sound, \_\_\_\_\_ population survey in; Feb. p. 36.

## HALIBUT

- California tagging project by M/V "Alaska"; Oct. p. 22.  
 "Greenland \_\_\_\_\_" correct name for that flatfish species; Jan. p. 33.  
 Japan, gill-net catch, incidental, in Gulf of Alaska bottomfish fishery; Dec. p. 1.  
 North Pacific:  
   fishing in area 3A ended August 26, 1965; Nov. p. 41.  
   regulations for 1965; Apr. p. 43.  
 Pacific fishing in areas 1, 2, 3A, and 3B South, closure of; Nov. p. 41.

## HATCHERIES

- Columbia River flood damage in late 1964 to fish \_\_\_\_\_; Mar. p. 28.  
 Oregon:  
   salmon, spring chinook, plantings increase in the Willamette River; June p. 31.  
   silver salmon, surplus, from \_\_\_\_\_ transplanted in Willamette River system in effort to build runs; Jan. p. 43.  
 Oyster, Canadian experimental \_\_\_\_\_ opened on Prince Edward Island; Jan. p. 89.  
 United Kingdom, lobster \_\_\_\_\_ experiments in Guernsey; Dec. p. 82.  
 World Symposium on Warm-Water Pond Fish Culture to be held in May 1966 by FAO; Aug. p. 62.

## HAWAII

- Landings, fisheries, in 1963; Jan. p. 33.

## HEALTH, EDUCATION, AND WELFARE, DEPARTMENT OF (see FOOD AND DRUG ADMINISTRATION; and PUBLIC HEALTH SERVICE)

## HERRING

- Alaska:  
   catch fluctuations analyzed by computer; Jan. p. 17.  
   fishery; Aug. p. 1.  
   Japanese firm interested in \_\_\_\_\_ products; May p. 12.  
   kelp and roe harvest, annual; July p. 17.  
   1965 fishery down sharply; Nov. p. 17.  
   southeastern, \_\_\_\_\_ fishery 1964; Feb. p. 15.  
 British Columbia, (Canada):  
   labor dispute settled; Feb. p. 53.  
   landings and products, 1964/65; June p. 48.  
   price dispute, \_\_\_\_\_ fishing halted by; Jan. p. 64.  
 Gulf of Maine:  
   barnacle larvae and relation to \_\_\_\_\_ feed studied; July p. 36.

## HERRING

- Gulf of Maine:  
   larvae, late winter distribution and abundance studied by M/V "Phalarope"; May p. 25.  
   larval distribution studied by M/V "Rorqual"; Feb. p. 35, May p. 26, Sept. p. 38.  
 Iceland:  
   ex-vessel prices set for Mar. 1-June 15, 1965; June p. 55.  
   fishery labor dispute settled; Sept. p. 63.  
   prices, minimum ex-vessel 1965 summer; Oct. p. 75.  
 Japan:  
   roe:  
     on kelp popular; Mar. p. 81.  
     prices; Feb. p. 70.  
   Soviets, delegation negotiates purchase from; Feb. p. 70.  
   U.S.S.R., \_\_\_\_\_ to be imported from; Mar. p. 82.  
 Maine landings; Feb. p. 42, Oct. p. 56.  
 North Atlantic population studies; July p. 35, Aug. p. 46.  
 Norway:  
   North Sea fishery; Sept. p. 73, Oct. p. 90, Dec. p. 77.  
   oil production may reach 100,000 tons in 1965; Oct. p. 90.  
   supply and disposition of \_\_\_\_\_ oil, 1964 with comparisons; June p. 70.  
   winter fishery; May p. 81, July p. 88.  
   winter fishing season's first week yields excellent catches; May p. 83.  
 Poland's 1964 North Sea \_\_\_\_\_ season profitable; May p. 85.  
 Polish-caught \_\_\_\_\_ frozen at base established in Ostend (Belgium); May p. 86.  
 Roe, Alaskan harvest of kelp and \_\_\_\_\_, 1965; Sept. p. 18.  
 Salted, Japanese prices; Feb. p. 69.  
 Sea, North Atlantic population survey by M/V "Delaware"; Jan. p. 39, Feb. p. 34, Nov. p. 31, Dec. p. 41.  
 Soviet-Norwegian trade protocol for \_\_\_\_\_ products signed; Aug. p. 65.  
 Washington test fishery opened off Whidbey Island; Dec. p. 45.

## HIGH SEAS, CONVENTION ON THE

- Italy deposits accession; May p. 55.  
 Uganda accedes to \_\_\_\_\_; Jan. p. 59.

## HONDURAS

- United Nations Special Fund development project to aid fisheries in Central America; May p. 56.

## HONG KONG

- Shark fin export opportunity to \_\_\_\_\_; Apr. p. 36.  
 Shrimp industry and foreign trade, 1963-64; Nov. p. 58.

## HOOKS

- Damage by electrolysis in long-line gear, aluminum crimping sleeve prevents; Aug. p. 19.

## HUNGARY

- Vessel, fishing, second congress of socialist countries attended by \_\_\_\_\_; May p. 57.

## ICELAND

- Canning:  
   industry development trends; Nov. p. 60.  
   plant, new, contracts to sell output to Norwegian exporting firm; Nov. p. 60.

## ICELAND (cont.)

## Exports:

fishery products; Jan. p. 72, Feb. p. 60, June p. 56, July p. 66, Oct. p. 74, Nov. p. 59, Dec. p. 56.  
fish oil and meal, 1962-64; June p. 56.  
stocks of principal fishery products for U. S.; May p. 68, June p. 56, July p. 66, Aug. p. 72, Sept. p. 63, Nov. p. 59, Dec. p. 56.  
trends, fishery, Jan.-June 1965; Dec. p. 58.

## Herring:

canning plants establish new export marketing organization; Nov. p. 60.  
ex-vessel prices set for Mar. 1-June 15, 1965; June p. 55.  
fishery labor dispute settled; Sept. p. 63.  
prices, minimum ex-vessel 1965 summer; Oct. p. 75.

## Import:

opportunities to fishing industry in \_\_\_\_; Dec. p. 59.  
trends in the fishing industry, Jan.-June 1965; Dec. p. 59.

## Industrial products:

exports of fish oil and meal, 1962-64; June p. 56.  
Labor situation in fishing industry, Jan.-June 1965; Dec. p. 57.

## Landings, fishery:

in 1963; Mar. p. 63.  
January-May 1965; Dec. p. 57.  
principal species; Feb. p. 61, May p. 68, June p. 56, Aug. p. 72, Sept. p. 63, Nov. p. 60, Dec. p. 59.  
utilization; Feb. p. 61, May p. 68, June p. 57, Sept. p. 63, Nov. p. 60, Dec. p. 59.

## Marketing trends, fishery, Jan.-June 1965; Dec. p. 58.

## Prices:

ex-vessel, set for 1965; Apr. p. 69.  
trends for fishery products, Jan.-May 1965; Dec. p. 57.

## Processed fishery products production, Jan.-May 1965; Dec. p. 57.

## Trawler fleet continues to decline; July p. 66.

## U. S. imports of fishery products from \_\_\_\_, 1963; June p. 35.

## Utilization of fishery landings, 1963-64; Aug. p. 72.

## IDAHO

Columbia River flood damage to fish facilities in late 1964; Mar. p. 28.

Flood damage to fishery facilities in the Columbia River system, Federal funds allocated to repair; Aug. p. 33.

## IMPORT DUTIES

United Kingdom surcharge on industrial goods reduced; May p. 88.

## IMPORTS

Crab meat, canned, Japanese exports, July-Aug. 1965; Dec. p. 66.

Fish blocks, frozen, U. S. \_\_\_\_ by countries, 1959-64; Sept. p. 48.

Fish fillet blocks, Soviet cod, Mass. State Legislature passes resolution on \_\_\_\_ of; May p. 23.

## Fish meal:

U. S. \_\_\_\_:  
annual summary, 1963-64; Apr. p. 22.  
monthly and cumulative data; Jan. p. 35, Mar. p. 40, Apr. p. 22, June p. 26, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.

## IMPORTS

## Fish solubles:

U. S. \_\_\_\_:  
annual summary, 1963-64; Apr. p. 22.  
monthly and cumulative data; Jan. p. 36, Mar. p. 40, Apr. p. 22, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.  
Free entry of temporary \_\_\_\_, study of; Sept. p. 82.  
Groundfish fillets, tariff-rate \_\_\_\_ quota for 1965; Apr. p. 93.

Icelandic export stocks of principal fishery products for U. S.; May p. 68, June p. 56, Aug. p. 72, Sept. p. 63, Nov. p. 59, Dec. p. 56.

## Japanese exports:

conference in New York City; Nov. p. 61.  
frozen fishery products other than tuna, April-August 1965; Dec. p. 66.

Processed edible fishery products; Jan. p. 50; Feb. p. 44, Mar. p. 56, May p. 47.

Shrimp, canned, Japanese exports to U. S., 1964; Apr. p. 73, May p. 75, July p. 75, Dec. p. 66.

Swordfish, frozen, Japanese export validations to the U. S. and Canada; Dec. p. 65.

Trout, rainbow, frozen, Japanese exports to U. S.; June p. 62, Sept. p. 69, Nov. p. 65.

Tuna and tuna loins, frozen, Japan's export validations to U. S.; Feb. p. 61, Apr. p. 70, Oct. p. 78, Dec. p. 60.

## Tuna:

## canned:

Japanese exporters handle 80,000 cases for export to U. S. in July 1965; Oct. p. 79.  
Japanese exports to U. S. suspended; Feb. p. 65.  
Japanese suspension of exports to U. S., developments on; Mar. p. 79, Apr. p. 71.

## canned in brine:

under quota; Jan. p. 50, Feb. p. 44, Mar. p. 55, Apr. p. 40, May p. 46, June p. 34, July p. 51, Aug. p. 57, Sept. p. 47, Oct. p. 57, Nov. p. 38, Dec. p. 44.

Japanese exporters seek increase in quota for U. S.; Dec. p. 61.

Japanese exports to U. S., progress of negotiations for; May p. 72, June p. 57.  
quota for 1965; July p. 104.

## frozen:

## Japanese exports:

market trends; Jan. p. 74.  
price trends; May p. 70.  
quotas for FY 1965; Mar. p. 76.  
to U. S. and Puerto Rico; Aug. p. 73, Sept. p. 64, Nov. p. 60.

## United States:

airborne \_\_\_\_ of fishery products; Jan. p. 51, Feb. p. 43, Mar. p. 56, Apr. p. 40, May p. 46, Sept. p. 48, Dec. p. 45.  
demand for European fish very big says British executive; Aug. p. 96.  
fishery products, 1963; Feb. p. 44.  
fishery products \_\_\_\_ account for over half of 1964 supply; July p. 50.  
trends in \_\_\_\_ of fishery products in 1963; June p. 34.

## INDEPENDENT CONTRACTORS

Shrimp fishermen, certain Gulf, held to be \_\_\_\_ for tax purposes by U. S. District Court; June p. 83.

## INDIA

Exports of fishery products, FY 1963/64; Jan. p. 73.

## INDIA (cont.)

- Exports of marine products, Jan.-May 1964; Jan. p. 73.
- Fisheries trends, fiscal year 1963/64; Jan. p. 72.
- Japanese-\_\_\_\_\_ joint fishing ventures and shrimp trade proposed; June p. 57.
- Poland sends fishermen and vessel to train fishermen from \_\_\_\_\_ in trawling; June p. 75.
- Shrimp, Japanese fishing firm plans joint company in \_\_\_\_\_; Aug. p. 73.
- United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 51.
- U. S. imports of fishery products from \_\_\_\_\_; 1963; June p. 35.

## INDIAN AFFAIRS, BUREAU OF

- Indian commercial fishing regulations in Alaskan Annette Islands Reserve, changes proposed in; Jan. p. 103.
- Treaty fishing, off-reservation, proposed regulations applicable to; Sept. p. 80.

## INDIAN FISHING

- Alaskan Annette Islands Reserve, changes proposed in \_\_\_\_\_ regulations in; Jan. p. 103.
- Treaty fishing, off-reservation, proposed regulations applicable to; Sept. p. 80.

## INDIAN OCEAN

- FAO, Indo-Pacific Fisheries Council, recommendations on \_\_\_\_\_ made at 11th session of; Mar. p. 65.
- Soviet fishery research in eastern \_\_\_\_\_; Apr. p. 86.
- Tuna, frozen, cost of shipping Japanese \_\_\_\_\_ product to Puerto Rico; Feb. p. 63.

## INDONESIA

- Shrimp, Japanese-\_\_\_\_\_ joint fishing venture; Feb. p. 61.

## INDO-PACIFIC FISHERIES COUNCIL

- Fishery problems discussed at 11th session; Jan. p. 56.
- Highlights of 11th session; Mar. p. 64.
- Symposium on increasing fish consumption held at 11th session; Apr. p. 48.
- Twelfth session in Hawaii in 1966, \_\_\_\_\_ invited to hold; Oct. p. 62.

## INDUSTRIAL FISHERY

- Bottomfish, Gulf of Mexico, northern, review of \_\_\_\_\_ in, 1959-62; Jan. p. 1.

## INDUSTRIAL FISHERY PRODUCTS

- Alaska herring fishery; Aug. p. 1.
- Animal feed industry, fish meal and fish solubles find strong demand in; Feb. p. 27.
- Fish meal, oil, and solubles:
  - annual summary, 1963-64; Apr. p. 22.
  - major indicators; Jan. p. 35, Mar. p. 39, Apr. p. 23, July p. 25, Aug. p. 42, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.
- Fish meal:
  - utilization in New England poultry rations, level of; Mar. p. 38.
  - world production; Jan. p. 55, Mar. p. 60, Apr. p. 47, May p. 49, July p. 55, Aug. p. 61, Oct. p. 61, Nov. p. 41, Dec. p. 47.
- Fish solubles growth-promoting ability in chick feed confirmed; Jan. p. 34.

## INDUSTRIAL FISHERY PRODUCTS

## Oil:

- marine-animal, U. S. trends 1964 and outlook for 1965; Jan. p. 34.
- marine, world production 1960-64 and forecast 1965; Apr. p. 47.
- Production; Jan. p. 35, Mar. p. 39, Apr. p. 22, June p. 26, July p. 26, Aug. p. 41, Sept. p. 29, Oct. p. 35, Nov. p. 23, Dec. p. 36.
- Production by areas; Jan. p. 35, Feb. p. 27, Mar. p. 39, Apr. p. 23, June p. 26, Aug. p. 42, Sept. p. 30, Oct. p. 34, Nov. p. 23, Dec. p. 37.
- Supply; Jan. p. 36, Mar. p. 39, Apr. p. 22, July p. 27, Aug. p. 41, Sept. p. 30, Oct. p. 35, Nov. p. 23, Dec. p. 36.
- U. S. production, 1964; June p. 25.

## INLAND FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

- Oahe Reservoir trawling studies; Nov. p. 24, Dec. p. 37.

## INLAND FISHERIES RESEARCH

- Reservoir fishery research vessel, new type; Aug. p. 42.

## INSPECTION

- Canada's \_\_\_\_\_ of fishery products, expanded program planned for; Feb. p. 53.
- Fish portions, frozen raw breaded:
  - Defense Personnel Support Center amends \_\_\_\_\_ requirements; Dec. p. 30.
  - Defense Subsistence Supply Center announces new requirements; June p. 19.
- Fishery products, U. S. \_\_\_\_\_ and certification procedures modified by minor technical amendments; Aug. p. 101.
- Government \_\_\_\_\_ of fishery products means what to you; Jan. p. 134.
- Interior, U. S., Department of, fishery products \_\_\_\_\_ program regulations, penalties proposed for violation of; July p. 99.
- Shrimp, frozen raw breaded, grades, proposed revised U. S. standards for; May p. 95.

## INSTITUTE OF MARINE SCIENCE (see MIAMI UNIVERSITY)

## INSURANCE (see MORTGAGE INSURANCE)

## INTER-AMERICAN TROPICAL TUNA COMMISSION

- Annual meeting held at Mexico City; June p. 41.
- Tuna, yellowfin, quota for 1965 recommended by \_\_\_\_\_; June p. 41.
- United Nations Special Fund, oceanographic and fishery research of \_\_\_\_\_ assisted by; Apr. p. 50.

## INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

- Working Group on Mutual Assistance established by \_\_\_\_\_; May p. 55.

- INTERIOR, U. S. DEPARTMENT OF THE (also see COMMERCIAL FISHERIES, BUREAU OF; FISH AND WILDLIFE SERVICE; INDIAN AFFAIRS, BUREAU OF; and SPORT FISHERIES AND WILDLIFE, BUREAU OF)
  - American Fisheries Advisory Committee, two new members appointed to fill vacancies; Aug. p. 24.
  - Commercial Fisheries Research and Development Act, regulations, proposed amended; June p. 83.



## INTERIOR, DEPARTMENT OF THE (cont.)

- Federal aid funds apportioned to states by \_\_\_\_\_ for fiscal year 1965; Mar. p. 28.
- Fishery loan program extension requested by \_\_\_\_\_; Apr. p. 92.
- Inspection program for fishery products, penalties proposed for violation of regulations of; July p. 99.
- Library reference service for fish and wildlife; Nov. p. 26.
- Oceanography educational grants for 1965 awarded by \_\_\_\_\_; July p. 39.
- Pesticides:
  - guidelines for testing, developed by \_\_\_\_\_; May p. 94.
  - research program, removal of ceiling requested by \_\_\_\_\_; May p. 95.
- Seal skins, Alaska:
  - processing, promoting, and selling, \_\_\_\_\_ awarded contract for; July p. 101.
  - research to improve processing techniques, \_\_\_\_\_ awarded contract for; Nov. p. 79.
- Shrimp, frozen raw breaded, proposed revised U. S. standards for grades of; May p. 95.
- Subsidy, fishing vessel construction, regulations adopted; Jan. p. 99.
- Vessel definition amendment under fishing vessel mortgage insurance procedures; Aug. p. 103.

## INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES (see NORTHWEST ATLANTIC FISHERIES, INTERNATIONAL COMMISSION FOR THE)

## INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (see NORTHWEST ATLANTIC FISHERIES CONVENTION)

## INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA (see SAFETY OF LIFE AT SEA, INTERNATIONAL CONVENTION FOR THE)

INTERNATIONAL COOPERATION YEAR

- U. S.-Mexican fishery research data exchange part of observance of \_\_\_\_\_; Dec. p. 40.

INTERNATIONAL COOPERATIVE INVESTIGATIONS OF THE TROPICAL ATLANTIC

- Gulf of Guinea survey continued by M/V "Geronimo"; Oct. p. 54.

## INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA

- Pelagic fish species in Arctic waters, symposium planned by \_\_\_\_\_ on ecology of; Jan. p. 59.

INTERNATIONAL INDIAN OCEAN EXPEDITION

- Fishery observations during research vessel "Anton Bruun" cruise off East Africa; Apr. p. 49.

INTERNATIONAL LABOR ORGANIZATION

- Fishermen's training and working conditions to be reviewed; Nov. p. 43.

INTERNATIONAL MEETING ON STRUCTURAL RESEARCH ON WOODEN FISHING VESSELS

- First \_\_\_\_\_ held in Copenhagen, Sept. 15-18, 1964; Feb. p. 48.

## INTERNATIONAL NORTH PACIFIC FISHERIES CONVENTION (see NORTH PACIFIC FISHERIES CONVENTION, INTERNATIONAL)

## INTERNATIONAL NORTH PACIFIC SALMON FISHERIES COMMISSION (see NORTH PACIFIC SALMON FISHERIES COMMISSION, INTERNATIONAL)

## INTERNATIONAL PACIFIC HALIBUT COMMISSION (see PACIFIC HALIBUT COMMISSION, INTERNATIONAL)

## INTERNATIONAL PACIFIC SALMON FISHERIES COMMISSION (see PACIFIC SALMON FISHERIES COMMISSION, INTERNATIONAL)

## INTERNATIONAL WHALING COMMISSION (see WHALING COMMISSION, INTERNATIONAL)

## INTERSTATE COMMERCE COMMISSION

- Truck detention charges:
  - in Middle Atlantic territory proposed by \_\_\_\_\_; Mar. p. 98.
  - set for the Northeast; July p. 101.

## INVENTIONS

- Anchor, folding, produced in Norway; Nov. p. 70.
- Echo-sounder, improved, "sound-pictures" of fish schools may be possible with; Mar. p. 45.
- Light, fisherman's portable, patented; Apr. p. 23.
- Molding food products, patented low-cost manual device for; May p. 22.
- Propeller, marine, with protective casing patented; Apr. p. 23.
- Trawling cone that can substitute for otter boards invented in Denmark; Mar. p. 40.
- Vessels, damaged, new system to help keep afloat; Jan. p. 36.

## INVESTMENT OPPORTUNITIES

- Tuna fisheries \_\_\_\_\_ in Ryukyu Islands; Jan. p. 36.
- Venezuela:
  - fisheries \_\_\_\_\_; Aug. p. 97.
  - tuna and shrimp fisheries \_\_\_\_\_; Oct. p. 100.

## IOWA

- Rough fish removal program, 1964; May p. 22.

## IRAQ

- Fisheries, commercial, \_\_\_\_\_ plans to develop its; May p. 69.

## IRELAND

- Fisheries report released on survey made by U. S. study group; Jan. p. 73.
- Fishing limits extended to 12 miles; Jan. p. 73.
- Salmon have been valued for over seven centuries; Dec. p. IV.
- Spanish landings at \_\_\_\_\_ port, Government answers local fishermen's protests over; Mar. p. 75.

## IRRADIATION PRESERVATION

- European studies of \_\_\_\_\_ of fishery products; July p. 58.
- Fisheries industry invited to join study on \_\_\_\_\_ of seafood; Aug. p. 43.
- Fishery products pasteurization with gamma rays from a cobalt-60 source; Oct. p. 1.
- Food preservation by \_\_\_\_\_ outlined in Army's petition to Food and Drug Administration; Apr. p. 98.

## IRRADIATION PRESERVATION (cont.)

- France, fishery products, \_\_\_\_\_ studies of; July p. 58.  
 German Federal Republic, fishery products, \_\_\_\_\_ studies of; July p. 58.  
 Italy, fishery products, \_\_\_\_\_ studies of; July p. 58.  
 Japan, study of \_\_\_\_\_ of fish; Aug. p. 83.  
 Netherlands, fishery products, \_\_\_\_\_ studies of; July p. 59.  
 Norway, fishery products, \_\_\_\_\_ studies of; July p. 59.  
 United Kingdom, frozen fish \_\_\_\_\_ under study; Sept. p. 79.

## ISRAEL

- South Africa, fishing by \_\_\_\_\_ off; Dec. p. 80.

## ITALY

- Atlantic fishing fleet, Sicily expands; Apr. p. 69.  
 Cod, salted, import quota, duty-free, in 1965 set by EEC; May p. 69.  
 Consumption, per capita, of fishery products, 1964; Dec. p. 60.  
 Fishery market trends; Oct. p. 75.  
 High Seas, Convention on the, \_\_\_\_\_ deposits accession to; May p. 55.  
 Imports of fishery products, 1964; Dec. p. 60.  
 Landings, fishery, in 1963; Mar. p. 63.  
 Landings, imports, and fishery trends, 1964; Dec. p. 60.  
 Marine oil foreign trade, 1963-64; July p. 67.  
 Salmon, canned, trade in Japanese product liberalized; Sept. p. 64.  
 Studies of irradiation preservation of fishery products; July p. 58.  
 Territorial Sea and the Contiguous Zone, Convention on the, \_\_\_\_\_ deposits accession to; May p. 55.  
 Tuna:  
   frozen:  
     bluefin, rejected by cannery; Dec. p. 59.  
     import quota, duty-free, in 1965 set by EEC; May p. 69.  
 Japanese-Italian joint fishing venture in Atlantic; Apr. p. 69.  
 vessel(s):  
   fishing fleet for Korea being built by French-Italian consortium, progress on; Sept. p. 71.  
   fishing fleet status, 1964; Dec. p. 60.  
   launched; May p. 69.  
   new, for Atlantic fishing planned; Apr. p. 70.

## IVORY COAST

- Canned sardine and tuna production plans for 1965/66 season; July p. 68.  
 Fishery development plans being realized; Mar. p. 75.  
 Fishery trends in 1964; Oct. p. 76.  
 Fish meal and oil potential and general fisheries situation; Feb. p. 83.  
 Seminar on administration and planning for fisheries development, \_\_\_\_\_ participates in; June p. 39.

## JACK MACKEREL (see MACKEREL)

## JAMAICA

- Fisheries:  
 development project considered; Mar. p. 76.  
 industry expansion planned by \_\_\_\_\_; Jan. p. 74.  
 landings, 1963; Mar. p. 76.  
 situation; Oct. p. 76.

## JAPAN

## Alaska:

- fishing activity; Jan. p. 16, Feb. p. 14, Mar. p. 17, Apr. p. 12, May pp. 1 and 11, June p. 14, July p. 16, Aug. p. 20, Sept. p. 17, Oct. p. 20, Nov. p. 15, Dec. p. 23.

- herring products, \_\_\_\_\_ firm interested in; May p. 12.

- plans for joint Japanese-U. S. firm to process fish in; Aug. p. 23.

## Alaska, Gulf of:

- firm to use larger trawler for fishery; Sept. p. 68.  
 groundfish catches by \_\_\_\_\_; Aug. p. 22.

- trawler operation ends; Nov. p. 64.

- trawlers, 11 large, to fish in 1965; May p. 74.

- trawl fleets, eleven, licensed to fish; Aug. p. 78.

## Antarctic:

- waters, fishing firm plans to explore; Dec. p. 70.  
 whaling expedition, production target of \_\_\_\_\_

- 1964/65 season; Jan. p. 80.

## Atlantic, Northwest:

- firm plans to operate large trawler in; Sept. p. 68.  
 fisheries, two firms to build large stern trawlers for; Nov. p. 66.

- trawl operations; Feb. p. 69.

## Atlantic Ocean:

- new trawler scheduled to fish in; Feb. p. 69.  
 trawlers, more large, to be licensed to fish in; Oct. p. 86.

- trawl fishery production trends; Aug. p. 80.

- Australia, research vessel to explore waters south of; Oct. p. 88.

## Bering Sea:

- bottomfish catches by \_\_\_\_\_ in 1964; Jan. p. 17.  
 bottomfish fleets, three, sailed in May for; Aug. p. 79.

## fishery:

- activities; May p. 75.  
 operations, Dec. 1964; Feb. p. 68.

- plans; July p. 75.

- trends; Oct. p. 84; Dec. p. 68.

- trawler fleets depart; Mar. p. 81.

- vessel, fishing, operations; June p. 60.

## Bottomfish:

- Australia, \_\_\_\_\_ to survey waters off; Feb. p. 71.

## Bering Sea:

- factoryship operation ends; Nov. p. 64.  
 fishery trends; Jan. p. 78.

- fleet, composition of; Mar. p. 80.

- operations, Dec. 1964; Feb. p. 69.

- Gulf of Alaska gill-net fishery; Dec. p. 1.

- North Pacific-Bering Sea, catch trends in; Sept. p. 68.

- North Pacific-Bering Sea fishery, Mothership Association submits recommendations on; Feb. p. 68.

- Okhotsk Sea, three fleets operating in; Nov. p. 64.

- Brine-freezing system aboard fishing vessels, Japanese firm to experiment with; June p. 62.

## Canned fish:

- Philippines accepts \_\_\_\_\_ bids on; Dec. p. 78.  
 products in short supply on domestic market; Sept. p. 71.

- Canned food export targets for fiscal year 1965; July p. 71.

- Canners, fish, discuss production costs with Fisheries Agency representatives; Jan. p. 77.

## Communist China:

- private fisheries agreement extension asked by \_\_\_\_\_; Dec. p. 70.

## JAPAN (cont.)

## Communist China (cont.):

fishery representatives tour; Feb. p. 71.  
 protests illegal fishing by \_\_\_\_\_ vessels; Sept.  
 p. 71.

## Crab:

canned exports, May-June 1964-65; Nov. p. 65.  
 Chile, enterprise delayed in; July p. 74.  
 king:

## Bering Sea:

conservation measures by \_\_\_\_\_; Oct. p. 21.  
 factoryships to reach target mid-August; Oct.  
 p. 82.  
 production quota, government arbitrates allocation of; Mar. p. 80.  
 research in; Oct. p. 21.  
 U. S.-\_\_\_\_\_ conclude talks on fishing in; Jan.  
 p. 26.

## Bristol Bay:

canned pack as of July 20, 1965; Oct. p. 82.  
 factoryship production; Nov. p. 63.  
 fleet production; Aug. p. 78.  
 pack as of June 5 of two factoryships; Aug. p. 78.  
 pot-fishing test in; Nov. p. 63.  
 pots may be used in 1965 to fish in; Feb. p. 67.  
 trap fishing planned in; Feb. p. 66.

## canned:

export prices increased; July p. 74.  
 exports, Jan.-Mar. 1964-65; July p. 74.  
 production and price trends; June p. 60.  
 Gulf of Alaska trawl fishery area limitations;  
 Oct. p. 82.

Okhotsk Sea, fleets depart for; June p. 60.  
 Pacific, western, catch quota for 1965 set by  
 Japanese-Soviet negotiators; June p. 43.  
 production trends; Sept. p. 68.

U. S.-\_\_\_\_\_ agreement on fishing in eastern  
 Bering Sea; Feb. p. 51.

meat, canned, exports, July-August 1965; Dec. p. 66.  
 Cuba seeks to recruit tuna fishermen from \_\_\_\_\_;  
 July p. 64.

Data Center, Fishery, funds will not be available  
 before 1967; Oct. p. 88.

Employment in fisheries, 1963; July p. 82.

Export conference in New York City; Nov. p. 61.

## Exports:

canned shrimp, July-August 1965; Dec. p. 66.  
 fishery and aquatic products, April 1-Sept. 30,  
 1964, with comparisons; May p. 71.  
 fishing vessels increase; May p. 78.  
 fresh and frozen marine products, 1964; Nov. p.  
 66, Dec. p. 66.  
 fresh and frozen tuna and swordfish, 1963-64; Nov.  
 p. 66.  
 frozen fishery products other than tuna, April-  
 August 1965; Dec. p. 66.  
 marine products, Jan.-June 1965; Dec. p. 68.  
 principal fishery products and other marine prod-  
 ucts, 1960-64; Dec. p. 67.  
 target and promotion measures adopted by gov-  
 ernment; Oct. p. 87.  
 targets for fishery and aquatic products, fiscal  
 year 1965; July p. 80.

Factoryship-mothership, firm building new freezer;  
 Feb. p. 71.

Factoryship operations in Bering Sea; Dec. p. 68.  
 Fisheries and agriculture in national economy, role  
 of; July p. 81.

Fishermen's wage scale; May p. 79.

## JAPAN

Fishery budget estimates, FY 1965; Mar. p. 84.

Fish farm, underwater, program planned; July p. 82.

## Fishing company:

obtains large loan; Mar. p. 83.  
 ranks 102 in sales in the world; Oct. p. 88.

Fishing firms to cut back equipment investments in  
 1966; Dec. p. 71.

Fishing grounds, new, development planned of; Jan.  
 p. 79.

## Fishing limit, 12-mile:

considered for southwest \_\_\_\_\_--foreign policy may  
 be affected; Dec. p. 64.

Government views on; Dec. p. 64.

Fishing vessel, steel, construction 1960-64; Nov.  
 p. 67.

Fish-liver oil production, 1956-64; Aug. p. 87.

## Fish meal:

Bering Sea production target for 1965; June p. 61.  
 domestic trends; Sept. p. 69.

## factoryship(s):

meet production targets in Bering Sea; Dec. p. 68.  
 to buy pollock from Soviet fishing vessels; Mar.  
 p. 83, May p. 76.  
 importation of 71,000 tons of; Jan. p. 80.  
 imports and exports; May p. 76, June p. 61.  
 market trends; June p. 61, July p. 76.  
 Okhotsk Sea, joint Soviet-\_\_\_\_\_ operations success-  
 ful in; May p. 76.  
 operations, joint Soviet-\_\_\_\_\_ in Okhotsk Sea pro-  
 tested by Hokkaido fishermen; Sept. p. 69.  
 prices increase for domestic offerings of factory-  
 ship production; Sept. p. 69.  
 pollock, Alaska, firms to buy from U.S.S.R.; Oct.  
 p. 83.  
 Soviet pollock imports hearing; July p. 82.

## Fish oil:

imports and exports, 1963-64; July p. 77.  
 production, 1960-64; Oct. p. 85.  
 production, 1956-64; Aug. p. 87.

Fish spotting and hydrographic observations, air-  
 craft to be used for; June p. 63.

Foreign joint fishing enterprises; Apr. p. 75.

## Ghana:

firm offers technical fishery assistance to; Nov.  
 p. 58.  
 receives second stern trawler from \_\_\_\_\_; Jan.  
 p. 72.

Guam, tuna purse-seiner operation cancelled off;  
 Aug. p. 76.

Hake, canned, marketing project postponed; Feb. p. 71.

## Herring:

roe:  
 on kelp popular in \_\_\_\_\_; Mar. p. 81.  
 prices; Feb. p. 70.  
 salted, prices in \_\_\_\_\_; Feb. p. 69.  
 Soviets, delegation negotiates purchase from; Feb.  
 p. 70.

U.S.S.R., \_\_\_\_\_ to import from; Mar. p. 82.  
 High-seas fishery promotion law proposed; Mar.  
 p. 83.

## Imports:

marine products are increasing; Sept. p. 70.  
 salmon roe from U. S. and Canada in 1965; July  
 p. 80.

Income, national, from fisheries, 1963; July p. 82.  
 Indian trade representatives propose joint fishing  
 ventures and shrimp trade with \_\_\_\_\_; June p. 57.  
 International fisheries problems, Fisheries Agency  
 requested to study; Nov. p. 67.



## JAPAN (cont.)

- International North Pacific Fisheries Convention, renewal of negotiations recommended by United States-\_\_\_\_\_ Economic Committee on; Oct. p. 63.
- Kelp:  
agreement with Soviets extended two years; July p. 82.  
application for importation of Soviet-produced; Nov. p. 67.
- Korea:  
Fisheries Agreement, joint, proposed; Dec. p. 65.  
fishery products to be imported by \_\_\_\_\_; Feb. p. 70.  
imports fishing vessels from \_\_\_\_\_; Dec. p. 73.  
Labor, fishery, conditions in \_\_\_\_\_; June p. 63.
- Law of the sea, \_\_\_\_\_ may ratify two conventions on; Mar. p. 83.
- Mackerel:  
canned, export prices; Nov. p. 65.  
fishing and canning trends; June p. 61.  
fishing and price trends as of early May 1965; July p. 76.  
frozen, Rumania, exports to; Jan. p. 79.  
jack, canned prices; June p. 62.  
pack and market trends; Nov. p. 66.  
Soviet vessel, large, fishing off \_\_\_\_\_; Dec. p. 82.
- Malaysian:  
firm purchases tuna fishing vessels from \_\_\_\_\_; Sept. p. 72.  
joint fishing venture planned; Apr. p. 77.
- Marine fishery production, 1964; Aug. p. 81.
- Marine oil:  
imports and exports, 1963-64; July p. 77.  
supply and disposition, 1963-64 and 1965 forecast; July p. 77.
- Mined fish land-based processors oppose plans to produce aboard factoryships; July p. 76.
- North Pacific Fisheries Commission meeting, \_\_\_\_\_ develops position for; Jan. p. 78.
- North Pacific:  
fishery activities; May p. 75.  
fishing season in area B shortened due to good fishing; Aug. p. 77.
- Northwest Pacific Fisheries Commission:  
meeting, \_\_\_\_\_ prepares for; Mar. p. 83.  
meeting, \_\_\_\_\_ schedules industry meetings to develop position for; Jan. p. 78.  
preconference views, \_\_\_\_\_ and Soviet, on salmon and crab negotiations; May p. 53.
- Northwest Pacific Fisheries Treaty with the Soviet Union, views in \_\_\_\_\_ on extending; July p. 81.
- Okhotsk, Sea of:  
Alaska pollock catch and liver-oil production, April-June 1965; Dec. p. 70.
- Overseas fisheries problems; Aug. p. 82.
- Papua-New Guinea fishing venture proposed with capital from \_\_\_\_\_ and Australia; Aug. p. 92.
- Pearls, cultured; Mar. p. 129.
- Pollock, Alaska:  
imports from U.S.S.R., Government's policy questioned on; Dec. p. 70.  
U.S.S.R., firms to buy from; Oct. p. 83.  
U.S.S.R., \_\_\_\_\_ price negotiation deadlocked; Nov. p. 67.
- Processing, factoryship handling of catch from gill-net bottomfish fishery in Gulf of Alaska; Dec. p. 1.
- Promoting fisheries, committee of specialists' views on; Oct. p. 88.
- Puffer fish culinary delight; Feb. p. 110.

## JAPAN

- Purse-seining gear improvement adopted; Jan. p. 75.
- Refueled at sea by tanker, fishing vessels in Atlantic to be; Sept. p. 68.
- Refueling vessels at sea planned for Atlantic Ocean; Aug. p. 84.
- Research, fisheries programs being consolidated; June p. 63.
- Salmon:  
Bering Sea mothership fishing ends; Oct. p. 82.  
canned:  
export prices for 1965 set; Aug. p. 77.  
exports down in 1964; Feb. p. 69.  
export stocks, prices, and market trends, Sept. 1965; Dec. p. 65.
- Great Britain:  
firms contract for early delivery to; Aug. p. 77.  
from fishing grounds to be shipped direct to; Aug. p. 77.  
mothership pack to be transshipped directly to; July p. 74.
- Italy liberalizes trade in Japanese product; Sept. p. 64.  
production and market trends; Jan. p. 76.
- catch:  
in 1964; May p. 50.  
quota for 1965 in western Pacific; June p. 43.
- Communist China, imports from; Mar. p. 81.
- fishermen negotiate new wage contract; Aug. p. 78.
- mothership fleet composition and catch quota for 1965; July p. 73.
- North Pacific-Bering Sea, catch trends in; Sept. p. 68.
- North Pacific:  
catch quota allocation for 1965 and 1964; June p. 59.  
mothership fishing ends; Oct. p. 82.  
mothership-type fishery, \_\_\_\_\_ feels Soviets may start; Feb. p. 67.
- Northwest Pacific Area B fishery, \_\_\_\_\_-Soviet negotiators agree on joint inspection of; June p. 43.
- pack available for export; Sept. p. 67.
- pink, Japan Sea catch; Aug. p. 77.
- price(s):  
and pack trends, mid-June 1965; Aug. p. 77.  
ex-vessel, settlement reached on 1965; July p. 72.  
negotiations; July p. 72.
- red, canned, sales reported good; Nov. p. 63.
- roe:  
imported from U. S.; Dec. p. 70.  
prices in \_\_\_\_\_; Feb. p. 69.
- salted, prices in \_\_\_\_\_; Feb. p. 69.
- western Pacific, \_\_\_\_\_ to ask Soviets for 120,000-ton catch quota for 1965 season in; Apr. p. 72.
- Sardines, canned, South Africa, \_\_\_\_\_ plans to import from; Aug. p. 80.
- Saury:  
canned exports for 1965; Oct. p. 83.  
catch poor in 1964; Feb. p. 64.  
fishery trends; Mar. p. 81, Dec. p. 69.  
seasonal fishery disappointing; Mar. p. 81.  
Soviets fishing off northeastern \_\_\_\_\_; Feb. p. 71.
- Scallop shells, Australia exports to \_\_\_\_\_; Mar. p. 68.
- Shrimp:  
Bering Sea:  
fishery trends; Sept. p. 68.  
1964 operation concluded in Dec. 1964; Feb. p. 68.
- canned:  
export at record low, supplies for; Oct. p. 83.

## JAPAN (cont.)

## Shrimp (cont.):

## canned (cont.):

exports; Jan. p. 76, Apr. p. 73, May p. 75, July p. 75, Aug. p. 80.

factoryship in Bering Sea; Dec. p. 69.

imports, Jan.-Aug. 1964; Feb. p. 70.

India-\_\_\_\_\_ joint company planned in India; Aug. p. 73.

Indonesian-\_\_\_\_\_ joint fishing venture; Feb. p. 61. trawlers, two, ordered by Nigeria from \_\_\_\_\_; Apr. p. 79.

South Africa, fishing by \_\_\_\_\_ off; Dec. p. 80.

South America, two firms to conduct test fishing off; Nov. p. 64.

Sperm oil, Antarctic production, 1964/65 season; Aug. p. 85.

Sperm whale, North Pacific study; Sept. p. 70.

Squid oil production, 1956-64; Aug. p. 87.

Study of irradiation preservation of fish; Aug. p. 83.

Swordfish, frozen, exports:

quotas; May p. 70.

target to U. S. for 1965/66; May p. 69.

validations to U. S. and Canada, Oct. p. 83, Dec. p. 65.

Temperatures of waters surrounding \_\_\_\_\_ continue below normal; Aug. p. 83.

## Trawler(s):

large, departs for Atlantic; Feb. p. 69.

licensed for northeastern Pacific in 1965; Feb. p. 68.

licensed for Atlantic Ocean deferred of additional; Aug. p. 80.

## stern:

delivered; Oct. p. 87.

large, fishing company to build; Nov. p. 67.

new, launched; Feb. p. 71.

west Africa, to fish off; Feb. p. 69, Aug. p. 80.

## Trawl fishery:

catch rate declines; Aug. p. 83.

licensing of vessels in northeastern Pacific to be studied; Feb. p. 67.

## Trawling, Gulf of Alaska:

limitations on; Oct. p. 82.

operations for; Jan. p. 79.

vessels licensed in 1965 for; Apr. p. 73.

Trout, rainbow, frozen, exports; June p. 62, Sept. p. 69, Nov. p. 65.

## Tuna:

Africa, purse-seine fleet arrives in; Jan. p. 75.

## albacore:

## Atlantic:

export trade, industry to establish council to regulate; July p. 68.

fishery and price trends; Oct. p. 78.

fishing and market trends, mid-May 1965; Aug. p. 76.

canned in oil, Tuna Federation to promote; Dec. p. 62.

export quotas for Atlantic fish; July p. 69.

fishing conditions off \_\_\_\_\_; June p. 58.

frozen export market, Tuna Federation develops plan to stabilize; July p. 69, Sept. p. 65.

market stabilization, industry members discuss; Aug. p. 76.

plan to promote domestic demand; Oct. p. 79.

South Atlantic, caught by long-line vessels in; Sept. p. 65.

## summer fishery:

export price trends; July p. 68.

## JAPAN

## Tuna:

## albacore:

summer fishery:

catch; Sept. p. 65.

trends as of mid-June 1965; Aug. p. 75.

summer pole-and-line fishery excellent; Aug. p. 75.

vertical distribution influenced by second thermocline say \_\_\_\_\_ scientists; July p. 71.

## American Samoa:

base, vessel operators seek use of larger vessels at; Jan. p. 19.

twenty long-line vessels assigned to; Dec. p. 26.

Asian conference being considered by \_\_\_\_\_; Dec. p. 63.

## Atlantic:

fishery and price trends, March 1965; June p. 58.

fishing trends and export prices, Feb. 1965; Apr. p. 70.

fishing trends in; Feb. p. 64.

long-line fishery trends; Sept. p. 65.

resources, fishery research vessel to study; Oct. p. 79.

resources to be surveyed; Feb. p. 64.

tropical, fleet in Dec. 1964; Feb. p. 64.

vessels operating in; Nov. p. 62.

bait for long-line fisheries, poor saury season creates shortage in; Feb. p. 64.

bluefin, fresh product commands high price; Aug. p. 76.

## canned:

canning firm granted patent for new pack; Oct. p. 81.

## exporters:

handled 80,000 cases for export to U. S. in July 1965; Oct. p. 79.

request extension of export agreement; Dec. p. 61.

## export(s):

market trends; Oct. p. 79.

sales, canners adopt measures to overcome drop in; Nov. p. 63.

to U. S., developments on suspension of; Mar. p. 79, Apr. p. 71.

suspended; Feb. p. 65.

trends; Oct. p. 79.

## market:

survey conducted in U. S.; Feb. p. 66.

trends; Aug. p. 74.

## pack:

Mar.-Apr. 1965; Aug. p. 74.

trends; July p. 69.

packers and exporters fail to make export agreement; Feb. p. 65.

price-quantity adjustments, exporters ask for; Sept. p. 67.

promotion in U. S., funds budgeted for; Feb. p. 66.

shipments from Shimizu, March 1965; July p. 70.

specialty pack, U. S. consumer response to; Aug. p. 75.

U. S., views on poor sales in; Oct. p. 79.

## canned in brine:

## exports:

sales developments; July p. 70.

to U. S., progress of negotiations for; May p. 72.

June p. 57.

sales to U. S.; July p. 69, Aug. p. 74, Dec. p. 61.

stocks and exports to U. S. as of Sept. 6, 1965; Dec. p. 61.

stocks on hand; Sept. p. 67.

## JAPAN (cont.)

## Tuna (cont.):

- canned in oil exports for fiscal year 1964; July p. 70.
- canners adopt new sales procedure; Mar. p. 78.
- Cape Verde Islands base, long-liners fish out of; Feb. p. 54.
- exporters unhappy over Yugoslavian grading system; June p. 59.
- Federation discusses measures to stabilize industry; Dec. p. 63.
- Fiji Islands, status of Anglo-\_\_\_\_\_ base in; Dec. p. 54.
- fishermen's federation studies measures to overcome depressed economic condition; Oct. p. 80.
- fishing and price trends; Mar. p. 77, Dec. p. 62.
- fishing effort, preliminary plan developed to reduce; May p. 73.
- fleet:
  - activities and landings; Nov. p. 61.
  - government official stresses need for reducing; May p. 73.
- fresh, approved export of; Feb. p. 62.
- frozen:
  - cost of shipping Indian Ocean product to Puerto Rico; Feb. p. 63.
- export(s):
  - approved for; Feb. p. 62.
  - market trends; Jan. p. 74.
  - price trends; May p. 70, June p. 58.
  - quotas for FY 1965; Mar. p. 76, May p. 70.
  - targets for 1965/66; May p. 69.
  - to U. S. and Puerto Rico; Aug. p. 73, Sept. p. 64, Nov. p. 60.
  - validations to U. S.; Jan. p. 75, Feb. p. 61, Mar. p. 76, Apr. p. 70, May p. 70, Oct. p. 78, Dec. p. 60.
  - prices drop for Atlantic albacore in Dec. 1964; Feb. p. 62.
  - Puerto Rico canneries, \_\_\_\_\_ shipments to, 1964; May p. 31.
- government:
  - and industry hold meeting; Sept. p. 66, Dec. p. 62.
  - assistance, industry urged to reduce reliance on; Mar. p. 80.
- Guam, purse-seiner in November to fish off; May p. 73.
- Gulf of Guinea, fleet fishing in; Feb. p. 63.
- industry:
  - status discussed at Government-industry meetings; July p. 71.
  - submits views on ways of strengthening; Oct. p. 80.
- Italian-\_\_\_\_\_ joint fishing venture in Atlantic; Apr. p. 70.
- landings:
  - frozen, in Togo; Jan. p. 91.
  - Yaizu; Sept. p. 64, Nov. p. 62.
- licenses, fishing, market value of; Oct. p. 81.
- loins, frozen, export validations to U. S.; Jan. p. 75, Feb. p. 61, Mar. p. 76, Apr. p. 70, May p. 70, Oct. p. 78, Dec. p. 60.
- long-line:
  - fishery management; June p. 59.
  - gear, improved method for setting and retrieving developed; Dec. p. 72.
  - organization, new, to represent coastal fishermen; Oct. p. 81.
  - overseas bases, larger vessels to operate from; June p. 58.

## JAPAN

## Tuna:

- Pacific, eastern, research vessel returns from survey in; May p. 72.
- pole-and-line fishery, interest increases in; Nov. p. 62.
- purse-seine:
  - fleet reports poor fishing off West Africa; Feb. p. 63.
  - operation, new, off Africa observed by fishing company officials; Feb. p. 63.
  - vessel, modern, constructed; June p. 59.
  - research vessel surveys Atlantic; Dec. p. 64.
- skipjack:
  - fishing slow; Oct. p. 78.
  - landings down for April-July 1965; Oct. p. 78.
- South Pacific:
  - mothership:
    - fleet catch in; Aug. p. 76, Sept. p. 65.
    - ends operations in early Sept.; Nov. p. 61.
    - fishery trends in; Mar. p. 78.
    - fleet lands; Feb. p. 64.
    - operations show losses; Feb. p. 64.
    - to be sent to; May p. 73.
- Soviet:
  - factoryships built in \_\_\_\_\_; Mar. p. 91.
  - offer exchange of fishing data; Aug. p. 76.
  - specialty packs exports for FY 1964; July p. 70.
  - storage fees, packers see cut in; Nov. p. 63.
  - study group, special, government considering forming; June p. 59.
- Taiwan:
  - orders vessels from \_\_\_\_\_; Sept. p. 76.
  - to purchase vessel construction materials from \_\_\_\_\_; Sept. p. 76.
- transshipment from American Samoa to \_\_\_\_\_; Nov. p. 19.
- Venezuela, \_\_\_\_\_ reduces holding in joint enterprise in; Nov. p. 76.
- vessels:
  - refueling at sea, Feb. p. 65.
  - research group to be formed; Mar. p. 77.
  - Taiwan construction bids awarded in \_\_\_\_\_; Jan. p. 80.
- wage agreement signed by boat owners and crew members; Oct. p. 81.
- West Africa, purse-seine fleet reports poor fishing off; Mar. p. 78, June p. 58.
- Tuna-bonito fleet, fishing vessel decrease planned in; Apr. p. 72.
- U.S.S.R.:
  - fisheries negotiations, Soviet-\_\_\_\_\_, progress of; June p. 42.
  - fishing expansion to new fishing grounds, views on; Mar. p. 82.
  - fishing vessels off northeastern coast of \_\_\_\_\_; Jan. p. 92.
  - U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.
- Vessels:
  - activities; July p. 80.
  - construction:
    - April-May 1965; July p. 81.
    - loan from Great Britain, firm obtains; Jan. p. 80.
    - loans are up; Nov. p. 67.
    - trends in fiscal year 1964; Aug. p. 84.
  - exports; Aug. p. 83.
  - exports to South Korea, restrictions lifted on; Oct. p. 87.
  - export trends; May p. 78.

## JAPAN (cont.)

## Vessels (cont.):

factoryships for U.S.S.R., \_\_\_\_\_ launches new series of; Apr. p. 86, July p. 94.  
 fleet status in 1963 and construction trends in 1964; May p. 77.  
 large fishery stern-trawler research planned; Sept. p. 69.  
 licensed for construction, April-June 1965; Dec. p. 71.  
 licenses, fishing, in effect Dec. 31, 1964; Apr. p. 75.  
 shortage in Okinawan labor force for use on; Feb. p. 70.  
 stern trawler for Ghana, \_\_\_\_\_ completes second; Feb. p. 60.  
 tuna:

catchers, new portable; Dec. p. 71.  
 design improvement studies; Feb. p. 65.  
 fishing, export to South Korea approved by \_\_\_\_\_ cabinet; May p. 74.

Viet-Nam, South, fisheries aid from \_\_\_\_\_ to; Dec. p. 80.

Wage system, minimum, fishing union adopts fixed; Jan. p. 79.

Whale catch from coastal areas; May p. 80, Oct. p. 84.

Whale meat to be purchased from Norwegian whaling fleet; Sept. p. 70.

## Whale oil:

and meat production, 1963/64 season; Mar. p. 83.  
 Antarctic production, 1964/65 season; Aug. p. 85.  
 imports and exports, 1963-64; July p. 77.  
 sales agreement for domestic market; Sept. p. 70.  
 Whalers from \_\_\_\_\_ licensed to fish off Chile, three more; Apr. p. 65.

## Whaling:

## Antarctic:

catch as of Mar. 1, 1965; May p. 80.  
 catch, 1964/65; June p. 45.  
 expeditions to participate in 1965/66 season; Oct. p. 91.  
 fleet for 1965/66 season reduced; Aug. p. 85.  
 land stations' whale oil production as of Jan. 1965; Aug. p. 85.  
 1964/65 season, views of \_\_\_\_\_ on developments of; Jan. p. 60.  
 pre-season operation out of South Georgia Island; Sept. p. 70.  
 season trends, 1964/65; May p. 80.

Chile, \_\_\_\_\_-Chilean firms venture in; Oct. p. 69.

conference, \_\_\_\_\_ to host 5-nation; Oct. p. 66.

joint \_\_\_\_\_-Norwegian venture; Oct. p. 85.

## North Pacific-Bering Sea:

operations; Oct. p. 84.

trends, 1965; Oct. p. 83.

## North Pacific:

operations in 1965 conducted jointly by two firms; July p. 78.  
 three fleets sailed in May for; Aug. p. 86.  
 views of \_\_\_\_\_ on Antarctic season quota; Apr. p. 74.

White paper on fisheries issued by government; May p. 79.

Yaizu fishery landings; July p. 79, Sept. p. 64, Nov. p. 62.

Yugoslav tuna market surveyed by \_\_\_\_\_; July p. 96.

## JAPAN SEA

Salmon, pink, Japanese catch in \_\_\_\_\_; Aug. p. 77.

## KELP

Alaska, herring egg and \_\_\_\_\_ harvest; July p. 17, Sept. p. 18.

## Japan:

application to Government to import from U.S.S.R.; Nov. p. 87.

herring roe on \_\_\_\_\_ proves popular; Mar. p. 81.  
 U.S.S.R.-Japanese agreement on \_\_\_\_\_ fishery extended two years; July p. 82.

## KENYA

Cannery for shrimp and spiny lobster planned in coastal area; Dec. p. 72.

United Nations Special Fund development project to aid fresh-water fisheries in East Africa; Apr. p. 51, May p. 57.

## KING CRAB (see CRAB, KING)

## KOREA, NORTH (DEMOCRATIC PEOPLES REPUBLIC OF KOREA)

Vessel, Dutch-built fish-factory freezer, delivered to \_\_\_\_\_; Apr. p. 79.

## KOREA, REPUBLIC OF

Fishing fleet, offshore, expanded; Feb. p. 72.

Fishing industry, planning large-scale expansion of; Dec. p. 72.

## Japan:

joint fisheries agreement proposed; Dec. p. 65.  
 to import \_\_\_\_\_ fishery products; Feb. p. 70.

Saury fishery off Japan, \_\_\_\_\_ enters; Dec. p. 70.

Training program for fishermen sponsored by United Nations Special Fund; Feb. p. 72.

Tuna, frozen, export target for 1965; Oct. p. 89.

## Vessels:

exports to \_\_\_\_\_, Japan lifts restrictions on; Oct. p. 87.

fishing, \_\_\_\_\_ plans to build 572; Nov. p. 68.

fleet being built by French-Italian consortium, progress on; Sept. p. 71.

## tuna:

first received under French-Italian contract; Mar. p. 81.

Japanese cabinet approves export to \_\_\_\_\_ of; May p. 74.

new, for training center; Oct. p. 89.

United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 51.

## KUROSHIO CURRENT

FAO, Indo-Pacific Fisheries Council, \_\_\_\_\_ discussed at 11th session of; Mar. p. 64.

## KUWAIT

Vessels, shrimp, delivered by Norwegian shipyard; Aug. p. 87.

## LABELING

Net weight \_\_\_\_\_, California adopts regulations on; Mar. p. 20.

Pennsylvania issues new ruling on \_\_\_\_\_ requirements; Jan. p. 37.

## LABORATORY (see FISHERIES LABORATORY)

LABOR, DEPARTMENT OF (see APPRENTICESHIP AND TRAINING, BUREAU OF; LABOR STATISTICS, BUREAU OF; and WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS)

## LABOR STATISTICS, BUREAU OF

Retail price indexes for fishery products, 1963-65; Aug. p. 51.

## LAKE ERIE

Landings, commercial fishery, in 1964; Aug. p. 39.

## LAKE HURON

Lake trout restocking program in \_\_\_\_\_; Mar. p. 34.  
Landings, commercial fishery, in 1964; Aug. p. 39.  
Sea lamprey-producing streams, chemical treatment of may be extended to \_\_\_\_\_; June p. 22.  
Trawling studies conducted by M/V "Kaho"; Sept. p. 28, Oct. p. 32.

## LAKE MICHIGAN

Alewife population continues to increase; Aug. p. 38.  
Green Bay, seasonal distribution and abundance studies of alewife, chub, and yellow perch in \_\_\_\_\_ continued by M/V "Kaho"; Jan. p. 30, July p. 22, Sept. p. 27, Nov. p. 20.

## Lake trout:

rehabilitation program; Oct. p. 31.  
restocking program in \_\_\_\_\_; Mar. p. 34, May p. 20, Aug. p. 37.  
study, Michigan requests Federal funds for; Aug. p. 44.  
yearling, plans for restocking in \_\_\_\_\_ during summer of 1965; June p. 22.

Landings, commercial fishery, in 1964; Aug. p. 39.  
Sea lamprey-producing streams, chemical treatment continued of; June p. 21.

## LAKE SUPERIOR

## Lake trout:

continue to recover says Great Lakes Fishery Commission; Sept. p. 51.  
planting program, 1964; Mar. p. 33.  
rehabilitation program; Oct. p. 31.  
restocking program in \_\_\_\_\_; Mar. p. 34, Aug. p. 37.  
Landings, commercial fishery, in 1964; Aug. p. 39.  
Sea lamprey-producing streams, chemical treatment of continued; June p. 21.  
Trawling studies continued in \_\_\_\_\_; Feb. p. 22, Sept. p. 25.

## LAKE TROUT

## Great Lakes:

commercial fishery for \_\_\_\_\_, limited, desirability to be studied of; Mar. p. 47.  
rehabilitation program; Oct. p. 31.  
restocking program; Mar. p. 33, Aug. p. 37.

## Lake Michigan:

plantings of yearling \_\_\_\_\_ during summer 1965; June p. 22.  
restocking program, 1965; May p. 20.

## Lake Superior:

landings in 1964; Aug. p. 39.  
planting program, 1964; Mar. p. 33.  
Michigan requests Federal funds for \_\_\_\_\_ study; Aug. p. 44.

## LAKE VICTORIA

United Nations Special Fund development project for East African fresh-water fisheries to concentrate on \_\_\_\_\_ fisheries research; May p. 57.

## LAMPREY, SEA (see SEA LAMPREY)

## LAMPRICIDE

Great Lakes, chemical treatment of tributary streams in 1965; June p. 21.

## LANDINGS

Foreign fishery \_\_\_\_\_ in U. S. ports, ruling on; Feb. p. 94.  
U. S. commercial fishery:  
different periods; Feb. p. 41, Oct. p. 56.  
value of \_\_\_\_\_ higher in 1964; Apr. p. 38.

## LARVAE

Barnacle, Gulf of Maine studies and relation to sardine feed; July p. 36.  
Herring, Gulf of Maine distribution and abundance studied; May p. 25, Sept. p. 38.  
North Atlantic lobster and sea herring \_\_\_\_\_ studied by M/V "Delaware"; Nov. p. 31.

## LATIN AMERICA

Food and Agriculture Organization holds Eighth Regional Conference for \_\_\_\_\_; July p. 57.

## LATIN AMERICAN FREE TRADE ASSOCIATION

Fourth annual conference of \_\_\_\_\_; Apr. p. 48.

## LAW OF THE SEA

Continental Shelf, Convention on the, France deposits accession; Dec. p. 48.  
Conventions, certain International, ratified by Italy and New Zealand; May p. 55.  
Convention:  
on Continental Shelf, Finland ratifies; July p. 58.  
on Fishing and Conservation of the Living Resources of the High Seas, Finland ratifies; July p. 58.  
on Territorial Sea and Contiguous Zone, Finland ratifies; July p. 58.  
Finland ratifies \_\_\_\_\_ Conventions; June p. 44.  
Japan may ratify two conventions on \_\_\_\_\_; Mar. p. 83.  
University of Rhode Island establishes \_\_\_\_\_ Institute; May p. 23.

## LEBANON

Shrimp, Persian Gulf, Anglo-Arabian fishing venture in; Mar. p. 87.

## LEGISLATIVE ACTIONS

States' \_\_\_\_\_ affecting fisheries; Apr. p. 37, May p. 39, Sept. p. 47.

## LIBYA

Greek vessels licensed to operate in Libyan waters; Jan. p. 81.

## LIGHTHOUSE

Nuclear-powered \_\_\_\_\_, world's first, in second year of operation; Sept. p. 107.

## LIGHT STATION(S)

Coast Guard, U. S., establishes atomic-powered \_\_\_\_\_ in Chesapeake Bay; Feb. p. 28.  
Offshore tower built by U. S. Coast Guard to serve as \_\_\_\_\_ at Frying Pan Shoals off North Carolina; Feb. p. 28.

## LOAN PROGRAM, FISHERY

Interior, Department of, extension of \_\_\_\_\_ requested by; Apr. p. 92.



## LOAN(S)

- Agency for International Development, Chilean co-operatives, \_\_\_\_\_ to help bank for; Oct. p. 101.
- Alaska, vessels, fishing, applications for; Dec. p. 84.
- Application for purchase of salmon vessel; Nov. p. 70.
- Area Redevelopment Administration, industrial and commercial \_\_\_\_\_ to fisheries firms as of June 30, 1964; May p. 91.
- Canada, fishermen's improvement \_\_\_\_\_ act liberalized; Oct. p. 68.
- Fishing Fleet Improvement Act of 1964, hearings on construction differential subsidy applications under; Feb. p. 91, Mar. p. 98, Apr. p. 92, May p. 98, Oct. p. 106, Nov. p. 78.
- Fishing vessel construction subsidy regulations adopted; Jan. p. 99.
- German Federal Republic, coastal States ask increase in \_\_\_\_\_ for fishing industry; Sept. p. 60.
- Japanese fishing vessel construction \_\_\_\_\_ are up; Nov. p. 67.
- Oyster planters, Louisiana, eligible for emergency \_\_\_\_\_ from U. S. Department of Agriculture for hurricane damage; Dec. p. 84.
- United Kingdom, subsidy rates, reduced, proposed for white fish and herring fishermen; Oct. p. 99.
- U. S. requirements revised; Oct. p. 104.
- Vessels:  
construction application, first, under new U. S. Fishing Fleet Improvement Act of 1964; Feb. p. 43.
- U. S., \_\_\_\_\_ and other financial aid; Mar. p. 55, May p. 43, Aug. p. 56, Nov. p. 37.

## LOBSTER

- Canada:  
Atlantic stocks, more effective management proposed of; Dec. p. 51.
- trap, dome-shaped, designed with unique features; Jan. p. 67.
- Larval, Gulf of Maine distribution studied by M/V "Rorqual"; Nov. p. 31.
- North Atlantic populations and larvae studied; July p. 35, Aug. p. 46, Nov. p. 31, Dec. p. 41.
- Sand, Panama, exploratory fishing in; Apr. p. 1.
- Spiny:  
Australia:  
artificial cultivation to be tried in; Jan. p. 62.
- "barking" species netted by shrimp trawler; Aug. p. 99.
- development of industry spurred by foreign demand; Apr. p. 56.
- exports, production, and trends, FY 1964/65; Nov. p. 48.
- exports, production, and trends, FY 1963/64; Jan. p. 61.
- fishing trends for \_\_\_\_\_; Apr. p. 61.
- prices at record high; Mar. p. 67.
- Sydney restaurants, \_\_\_\_\_ too high-priced for; May p. 58.
- Brazilian production and exports lower; Nov. p. 49.
- British Honduras exports of \_\_\_\_\_; July p. 60.
- Ecuadorian landings and exports, 1964; Aug. p. 71.
- Indian Ocean grounds, new, fished by Soviets and South Africans; Oct. p. 95.
- Kenya cannery planned in coastal area; Dec. p. 72.
- Pacific Islands, freezing and processing plant opens in; Sept. p. 73.

## LOBSTER

- Spiny:  
Panama:  
catches low in 1964; Oct. p. 94.
- exploratory fishing in; Apr. p. 1.
- South-West African grounds, new, explored off coast; Mar. p. 89.
- United Kingdom:  
hatching experiments in Guernsey; Dec. p. 82.

## LONG-LINE

- Hook damage by electrolysis, aluminum crimping sleeve prevents; Aug. p. 19.
- Swordfish:  
Gear in Bahama area tested by M/V "Oregon"; Oct. p. 52.
- vessels, new, "Chilmark Sword" and "Chilmark Voyager"; Jan. p. 49.
- Tuna and swordfish, South and tropical Atlantic, seasonal availability by \_\_\_\_\_ investigated by M/V "Oregon"; Mar. p. 50.

## LOUISIANA

- Landings and fishery trends, 1964; Dec. p. 38.
- Oyster planters in \_\_\_\_\_ eligible for emergency loans from U. S. Department of Agriculture for hurricane damage; Dec. p. 84.

## MAASBANKER

- South Africa's Cape west coast catch, Jan.-Mar. 1965; Aug. p. 93.

## MACKEREL

- Canned:  
Burma invites bids on \_\_\_\_\_; Apr. p. 62.
- Japan:  
export prices; Nov. p. 65.
- Jack \_\_\_\_\_ prices; June p. 62.
- pack and market trends; Nov. p. 66.
- Frozen, Japanese exports to Rumania; Jan. p. 79.
- Japan:  
fishing and canning trends; June p. 61.
- fishing and price trends as of early May 1965; July p. 76.
- horse, export target for canned \_\_\_\_\_ in FY 1965; July p. 80.
- Landings, U. S., different periods; Feb. p. 42, Oct. p. 57.
- U.S.S.R.:  
Japan, large vessel fishing \_\_\_\_\_ off; Dec. p. 82.
- Pacific, eastern, expedition sent to explore in; Nov. p. 72.

## MAINE

- Fisheries, 1964; Sept. p. 31.
- Landings:  
1964; Sept. p. 31.
- 1963; Jan. p. 38.
- Legislative actions affecting fisheries; Apr. p. 37, Sept. p. 47.
- Salmon, Atlantic, travels; Jan. p. IV.
- Sardines:  
canned stocks; Feb. p. 27, Apr. p. 23, July p. 27, Aug. p. 43, Oct. p. 36.
- canning season, year-round, approved; June p. 26.
- Philippines, \_\_\_\_\_ industry hopes to sell to, Feb. p. 28.
- University of \_\_\_\_\_ resumes marine research; Sept. p. 31.

## MALAYSIA

- Fishery trends, 1964; Aug. p. 87.
- Japanese-\_\_\_\_\_ joint fishing venture planned; Apr. p. 77.
- Landings, marine, 1963-64; Aug. p. 88.
- Trawling to be allowed on a restricted basis; Aug. p. 88.
- Tuna:
  - fishing vessels being purchased from Japan; Sept. p. 72.
  - industry of Singapore, expansion planned for; Sept. p. 72.

## MALI

- Participates in seminar on administration and planning for fisheries development; June p. 39.

## MARINE OIL (see FISH OIL)

## MARINE RESOURCES

- FAO Advisory Committee on \_\_\_\_\_ research meets in Rome; May p. 51, June p. 40.

## MARKETING

- Crab, red, economic and \_\_\_\_\_ study undertaken; Jan. p. 26.
- Edible fishery products; Jan. p. 37, Apr. p. 24, July p. 27, Oct. p. 36.
- Fish 'n' Seafood Parade; Nov. p. 26.
- Tuna, canned, Japanese conducted \_\_\_\_\_ survey in U. S. cities; Feb. p. 66.

## MARYLAND

- Chesapeake Bay Research Council holds first annual meeting; May p. 16.
- Crab meat, plastic container approved; Oct. p. 31.
- Fisheries, 1964; Sept. p. 32.
- Fisheries output, study proposed on boosting; Apr. p. 25.
- Landings, fisheries:
  - 1963; Jan. p. 24.
  - 1964; Sept. p. 32.
- Legislative actions affecting fisheries; Apr. p. 38.
- Oceanography "sea lab" in \_\_\_\_\_, private firm plans to build; May p. 29.
- Oyster observations for 1965; Oct. p. 50.
- Shellfish arrivals, standards for out-of-State; Apr. p. 25.
- Striped bass tagged in spawning and migration study; June p. 26.
- Vessel, new research, for University of \_\_\_\_\_; Apr. p. 25.

## MASSACHUSETTS

- Commercial fishermen, trainee, on-the-job training program for; Apr. p. 9.
- Fisheries, 1964; Sept. p. 33.
- Fish fillet blocks, imports of Soviet cod blocks, \_\_\_\_\_ State Legislature passes resolution on; May p. 23.
- Landings, fisheries:
  - 1963; Jan. p. 38.
  - 1964; Sept. p. 33.
- Legislative actions affecting fisheries; Apr. p. 37.
- Sanitary methods, more, in handling fish; May p. 24.
- Vessel, fishing, subsidy hearings on applications from \_\_\_\_\_; Aug. p. 100.

## MAURITANIA

- Fish meal and oil potential and general fisheries situation; Feb. p. 83.

## MEDICAL CARE

- Vessels, commercial fishing:
  - amendments proposed to regulations for medical care of owner-operators of; Jan. p. 98.
  - regulations for owner-operators of; May p. 94.

## MEDITERRANEAN, GENERAL FISHERIES COUNCIL FOR THE

- Eighth annual session held in Rome; July p. 56, Aug. p. 63.
- Sardine-tagging program in Mediterranean proposed; Aug. p. 63.
- Tuna working party set up at 8th annual session; Aug. p. 63.

## MEDITERRANEAN SEA

- FAO, plan for future development of fisheries in \_\_\_\_\_ urged; July p. 56.

## MENHADEN

- Landings, U. S., different periods; Feb. p. 41, Oct. p. 57.
- Trade Expansion Act and the Kennedy Round, \_\_\_\_\_ industry and the; May p. 9.

## MEXICO

- Brazilian firm buys \_\_\_\_\_ vessels for fisheries venture; Nov. p. 49.
- Canning center for fish at Ensenada expands; June p. 63.
- Crab, blue, Tampico fishing center; July p. 83.
- Freezing and distribution center, new, for fishery products opens new markets; Feb. p. 73.
- Landings, fishery, in 1963; Mar. p. 64.
- Marine oil imports, 1963-64; Sept. p. 72.
- Oaxaca's fishing industry makes excellent progress; July p. 84.
- Oyster, Tampico fishing center; July p. 84.
- Port facility, new, at Alvarado (Veracruz) completed; Feb. p. 74.
- Red snapper, Tampico fishing center; July p. 83.
- Research, fishery, data exchange with U. S.; Dec. p. 49.
- Shark fishery, Pacific, expands; Apr. p. 35.
- Shrimp:
  - exports to Europe and Asia granted tax advantage; Nov. p. 68.
  - fishing season on west coast, 1965/66; Dec. p. 73.
  - Tampico fishing center; July p. 83.
  - west coast:
    - catch poor during 1964/65 season; Apr. p. 77.
    - vessel tie-up, agreement reached in; Dec. p. 73.
  - Tampico, fishing center at; July p. 83.
  - United Nations Special Fund projects to aid fisheries; Dec. p. 74.
  - U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.
  - Yucatan's fishing industry expands; Dec. p. 75.

## MIAMI, UNIVERSITY OF

- Institute of Marine Science:
  - new marine laboratory for; Apr. p. 20.
  - research vessel "John Elliott Pillsbury" starts long oceanographic expedition; July p. 41.

**MIAMI, UNIVERSITY OF (cont.)**

Oceanography, tropical, international conference sponsored by \_\_\_\_; July p. 58.

**MICHIGAN**

Great Lakes:  
commercial fishing regulations, changes in; Aug. p. 37, Nov. p. 26.  
striped bass, introduction in southern waters planned; Dec. p. 32.  
Lake trout study, Federal funds requested for; Aug. p. 44.  
Salmon stocking of the upper Great Lakes continued by \_\_\_\_ State; Apr. p. 21.  
Yellow perch commercial fishing regulations, \_\_\_\_ proposes change in; Dec. p. 32.

**MIDDLE ATLANTIC STATES**

Cod fishery in the Northwest Atlantic; July p. 1.  
Interstate Commerce Commission truck detention charges in \_\_\_\_ territory proposed; Mar. p. 98.  
Landings, fishery, 1963; Jan. p. 37.

**MINIMUM WAGES**

Fish farming entitled to agricultural exemption under Fair Labor Standards Act; Nov. p. 79.

**MINK FEED**

Reduction process to convert raw fish into thiaminase-free press cake; Dec. p. 13.

**MINNESOTA**

Legislative actions affecting fisheries; Apr. p. 38.

**MISSISSIPPI**

Landings and fishery trends, 1964; Oct. p. 37.

**MOHOLE**

Oceanography Project \_\_\_\_ for drilling hole into seafloor; Jan. p. 41.

**MOLDING FOOD PRODUCTS**

Device, manual, patented for \_\_\_\_; May p. 22.

**MOROCCO**

Canned fish sales to Cuba increase; May p. 81.  
Fish meal and oil industry outlook and general fisheries situation; Feb. p. 82.  
Fish protein concentrate:  
for human consumption; June p. 65.  
new plant to produce; July p. 87.  
Sardines, canned, industry outlook; Feb. p. 81.  
Seminar on administration and planning for fisheries development, \_\_\_\_ participates in; June p. 39.  
Tuna fishing venture:  
extended, shows promising results; July p. 86.  
long-range, continued; Aug. p. 88.

**MORTGAGE INSURANCE**

Vessels, fishing:  
\_\_\_\_ program; Mar. p. 55, May p. 43, Aug. p. 56, Nov. p. 37.  
vessel definition amendment proposed under \_\_\_\_ procedures; July p. 101.

**MOZAMBIQUE**

Fisheries enterprise being developed by Portuguese-South African group, may help modernize fishing industry; June p. 65.

**MOZAMBIQUE**

Fishing industry, 1962; June p. 65.  
Shrimp freezing and canning plant being established; June p. 65.

**MUSSELS**

Tennessee River harvest decline related to overfishing; July p. 28.

**NATIONAL FISHERIES CENTER AND AQUARIUM**

Director named by Secretary of the Interior; Oct. p. 38.

**NATIONAL FISHERIES INSTITUTE**

Fish 'n' Seafood Parade:  
nationwide promotions planned for October 1965; Oct. p. 39.  
sell up to higher profits is theme for 1965; Aug. p. 44.

**NATIONAL SCIENCE FOUNDATION**

Marine:  
laboratory, new, at University of Miami financed by \_\_\_\_; Apr. p. 20.  
science summer training program for high school students in Norfolk, Va., supported by \_\_\_\_ grant; Mar. p. 57.  
Vessel, research, "Eastward" for Duke University built under \_\_\_\_ grant; July p. 41.  
Virginia Institute of Marine Science gets funds from \_\_\_\_ to support training program for teachers and students in summer of 1965; Feb. p. 45.

**NATIONAL SHELLFISH ASSOCIATION**

Virginia research results discussed at annual meeting; Sept. p. 49.

**NAVIGATION**

Collisions at Sea, President proclaims International Regulations for Preventing; Feb. p. 95.  
International Convention for the Safety of Life at Sea enters into force; Aug. p. 64.  
Lighthouse, atomic-powered, placed in operation in Chesapeake Bay by U. S. Coast Guard; Feb. p. 28.  
Light tower, Frying Pan Shoals, replaces U. S. Coast Guard lightship off North Carolina; Feb. p. 28.  
Light towers, offshore, part of U. S. Coast Guard modernization program; Feb. p. 28.

**NAVY, U.S.**

"Sea Lab II" report will be featured at symposium in Washington, D. C.; Dec. p. 43.

**NET(S)**

Gill \_\_\_\_ North Pacific salmon dropout studied by M/V "George B. Kelez" and "Paragon"; Oct. p. 47.  
Otter-trawl \_\_\_\_ an experiment in electrical fishing with an electric field used as an adjunct to an; June p. 1.  
Tuna see a \_\_\_\_ how; Mar. p. 11.  
Tuna seine \_\_\_\_ reducing the visibility of; Mar. p. 11.

**NETHERLANDS**

Fishing industry given financial support by \_\_\_\_ government; Mar. p. 85.  
Landings, fishery, in 1963; Mar. p. 63.  
North Sea fishery charts published by \_\_\_\_; Dec. p. 48.

## NETHERLANDS (cont.)

- North Sea Continental Shelf agreements between \_\_\_\_\_ and the United Kingdom; Dec. p. 83.  
 Shrimp trawling, new type net designed for; Oct. p. 89.  
 Studies of irradiation preservation of fishery products; July p. 59.  
 U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.  
 Vessel, Dutch-built fish-factory freezer, delivered to North Korea; Apr. p. 79.

## NEW CALEDONIA

- Octopus a delicacy in \_\_\_\_\_; July p. 97.

## NEW ENGLAND

- Cod fishery in the Northwest Atlantic; July p. 1.  
 Electrical fishing with an electric field used as an adjunct to an otter-trawl net, an experiment in; June p. 1.  
 Groundfish landings in 1964 and forecast for 1965; Feb. p. 29.  
 Landings, fishery, 1963; Jan. p. 38.  
 Price trends, comparative \_\_\_\_\_ and Danish ex-vessel, for selected species, Jan.-Apr. 1965; Nov. p. 53.  
 Scallop landings in 1964 and forecast for 1965; Feb. p. 30.  
 Stern trawling, Federal Reserve Bank of Boston issues report on; Oct. p. 40.

## NEWFOUNDLAND (see CANADA)

## NEW GUINEA, TRUST TERRITORY OF

- Fisheries potential of \_\_\_\_\_; Mar. p. 86.  
 Pearl culture in \_\_\_\_\_ under study; Aug. p. 92.  
 Shrimp, Australian survey off \_\_\_\_\_ shows commercial potential; Nov. p. 46.

## NEW HAMPSHIRE

- Landings, fishery, 1963; Jan. p. 38.

## NEW JERSEY

- Fisheries, 1963; Mar. p. 41.  
 Landings, fishery, 1963; Jan. p. 37, Mar. p. 41.  
 Oysters, Federal grant to aid industry; Sept. p. 34.  
 "Seaweed," artificial, used in coastal erosion-prevention tests; Nov. p. 27.

## NEW YORK

- Frozen food regulations postponed; Mar. p. 42.  
 Landings, fishery:  
 1963; Jan. p. 37.  
 1964; July p. 29.  
 Legislative actions affecting fisheries; Apr. p. 38, Sept. p. 47.

## NEW YORK CITY

- Fish makes contribution to \_\_\_\_\_ "Anti-Coronary Club" diet; Apr. p. 127.  
 Wholesale fish market, new site approved for; July p. 30.

## NEW ZEALAND

- Coloring treatment, dyeless, for dark-meat fish developed; Jan. p. 82.  
 Continental Shelf, Convention on the, \_\_\_\_\_ deposits ratification of; May p. 55.  
 Eels, frozen, exported; Dec. p. 50.

## NEW ZEALAND

- Foreign trade in fishery products, 1964; Jan. p. 82.  
 Pilchard research, grant awarded University for; Aug. p. 89.  
 Scallop industry; Sept. p. 72.  
 Tuna:  
 explorations on east coast show promise; Oct. p. 90.  
 fishery development program initiated; June p. 66.  
 Whaling comes to an end, fifty years of; June p. 66.

## NICARAGUA

- Export tax, new, on fishery products; Jan. p. 82.  
 Fishing limits of 200 miles claimed; July p. 87.  
 Shrimp fishery trends; June p. 67.  
 United Nations Special Fund development project to aid fisheries in Central America; May p. 56.

## NIGERIA

- Polish fish-breeding experts sent to \_\_\_\_\_ to aid fresh-water fisheries; June p. 75.  
 Shrimp:  
 potential of the eastern Gulf of Guinea; Nov. p. 9.  
 survey, extended, to be made of resources; Apr. p. 79.  
 trawlers, two, ordered from Japan; Apr. p. 79.  
 United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 50.  
 U. S. firms plan fishing venture in \_\_\_\_\_; Apr. p. 78.

## NORDIC CULTURAL COMMISSION

- Meeting of \_\_\_\_\_ held at Helsinki; Mar. p. 66.

## NORTH AMERICA

- Landings, fishery, in 1963; Mar. p. 63.

## NORTH AMERICAN FISHERIES CONFERENCE

- Future of fisheries to be discussed at first \_\_\_\_\_; Mar. p. 43.

## NORTH ATLANTIC

- Polish:  
 fishing activity off North American coast; Nov. p. 32, Dec. p. 41.  
 research vessel surveys fish populations in \_\_\_\_\_; Oct. p. 94.  
 Rumanian fishing activity off North American coast; Nov. p. 32, Dec. p. 41.  
 Soviet fishing activities off North American coast; Feb. p. 30, Mar. p. 43, Apr. p. 25, May p. 24, June p. 27, July p. 30, Aug. p. 45, Sept. p. 34, Oct. p. 41, Nov. p. 32, Dec. p. 40.  
 Western \_\_\_\_\_ tuna and swordfish distribution studies by M/V "Delaware"; Feb. p. 31.

## NORTH ATLANTIC FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

- Biological Laboratory, Boothbay Harbor, Maine, herring, sea, survey conducted by M/V "Delaware"; Jan. p. 39.  
 Clam, surf, survey off Maryland and Virginia continued; June p. 28, Sept. p. 34.  
 Sampling efficiency tests of two research vessels; Oct. p. 42.  
 Trawl gear evaluation studies continued; Sept. p. 36, Nov. p. 30.  
 Trawling, off-bottom, experiments continued; Apr. p. 26.  
 Tuna and swordfish distribution studies in western North Atlantic continued; Feb. p. 31, July p. 32, Nov. p. 27.

## NORTH ATLANTIC FISHERIES INVESTIGATIONS

Continental Shelf waters surveyed by M/V "Albatross IV"; Feb. p. 35, July p. 35, Aug. p. 47.  
Dogfish, record catch obtained in single tow; Sept. p. 39.  
Georges Bank, lobster and sea herring populations and larvae studies; July p. 35.  
Groundfish distribution and abundance studied; Mar. p. 44, July p. 34, Oct. p. 42.  
Gulf of Maine:  
barnacle larvae and relation to sardine feed studied; July p. 36.  
distribution of zooplankton and larval lobsters studied; Nov. p. 31.  
herring, larval distribution studied; Feb. p. 35, May p. 25, Sept. p. 38.  
Herring and lobster offshore population studies continued; Aug. p. 46.  
Lobster and sea herring populations and larvae studied; Jan. p. 39, Feb. p. 34, Nov. p. 31, Dec. p. 41.  
Open house held by Bureau of Commercial Fisheries research vessel "Albatross IV"; Oct. p. 42.  
Sampling efficiency tests conducted by M/V "Albatross IV"; Oct. p. 42.  
Sea scallop population survey on Georges Bank continued; July p. 36.  
Tagging, fish, statistics of Woods Hole Biological Laboratory; Oct. p. 44.  
Trawling, tow speed and distance effects on size and variability of catches studied; May p. 26.

## NORTH ATLANTIC OCEAN

Fishery catch at record high in 1963; June p. 44.

## NORTH CAROLINA

Duke University dedicates research vessel "Eastward"; July p. 41.  
Legislative actions affecting fisheries; Sept. p. 47.

## NORTHEAST ATLANTIC FISHERIES COMMISSION

Third meeting held in Moscow; Aug. p. 64.

## NORTHEAST ATLANTIC FISHERIES (POLICING) CONFERENCE

Plans for \_\_\_\_\_; Apr. p. 43.

## NORTH PACIFIC

Crab, king, Soviet-U. S. agreement on fishing on U. S. Continental Shelf of \_\_\_\_\_; Apr. p. 46.  
Halibut regulations for 1965; Apr. p. 43.  
Japan:  
Bottomfish Mothership Association submits recommendations on \_\_\_\_\_-Bering Sea fishery; Feb. p. 68.  
fishery activities in \_\_\_\_\_; May p. 75.  
Salmon:  
Japan:  
feels Soviets may start mothership-type fishery in \_\_\_\_\_; Feb. p. 67.  
mothership:  
fishing ends; Oct. p. 82.  
fleet composition and catch quota for 1965; July p. 73.  
season in area B shortened due to good fishing; Aug. p. 77.  
research cruise in the western \_\_\_\_\_; Jan. p. 46.  
Whale, sperm, Japanese study; Sept. p. 70.

## NORTH PACIFIC

Whaling:  
Japan:  
fleets, three, sailed in May for \_\_\_\_\_; Aug. p. 86.  
operations in \_\_\_\_\_; July p. 78, Oct. p. 84.  
trends in 1965; Oct. p. 83.

## NORTH PACIFIC FISHERIES COMMISSION, INTERNATIONAL

Eleventh annual meeting; Jan. p. 56.  
Japan develops position for \_\_\_\_\_ meeting; Jan. p. 78.

## NORTH PACIFIC FISHERIES CONVENTION, INTERNATIONAL

Canadian Fisheries Minister reports on Ottawa renegotiation talks; Jan. p. 57.  
Negotiations on \_\_\_\_\_, renewal of, recommended by U. S.-Japan Economic Committee; Oct. p. 63.

## NORTH PACIFIC FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

Demersal fish off Pacific Northwest coast surveyed; Apr. p. 27.  
Hake:  
fishing survey to be made by M/V "John N. Cobb" on cruise 70; Apr. p. 28.  
population survey and pelagic trawl tests continued; Feb. p. 36.  
population survey continued; Feb. p. 36, May p. 27, Aug. p. 47, Sept. p. 40, Oct. p. 45, Dec. p. 41.  
Pelagic trawl(s):  
"Cobb," construction and operation of the; Oct. p. 10.  
experimental fishing with; Feb. p. 35.  
modified type being tested; Oct. p. 44.  
newly-designed (lampara) type tested; Jan. p. 39.

## NORTH PACIFIC FISHERIES INVESTIGATIONS

Fishery Research Laboratory, new, dedicated in Seattle; July p. 44.  
Salmon:  
mature sockeye, growth and mortality rates in Bristol Bay studied; Oct. p. 47.  
mortality and gill-net dropout studies; July p. 38, Oct. p. 47.  
research cruise in the western North Pacific by M/V "George B. Kelez"; Jan. p. 46, Apr. p. 28, July p. 37.

## NORTH PACIFIC FUR SEAL COMMISSION

Annual meeting, 8th, convenes in Tokyo; May p. 54.

## NORTH PACIFIC SALMON FISHERIES COMMISSION, INTERNATIONAL

Annual meeting; Mar. p. 60.

## NORTH SEA

Charts, fishery, of \_\_\_\_\_ published; Dec. p. 48.  
Continental Shelf agreements between United Kingdom and the Netherlands; Dec. p. 83.  
Herring, Norwegian fishery trends in \_\_\_\_\_, Jan.-May 1965; Sept. p. 73.  
Norway's fishery trends as of July 1965; Oct. p. 90.

## NORTHWEST ATLANTIC

Japanese firms, two, to build large stern trawlers for \_\_\_\_\_ fisheries; Nov. p. 66.

## NORTHWEST ATLANTIC FISHERIES COMMISSION

Annual meeting, 15th, to be held at Halifax; Apr. p. 43.



## NORTHWEST ATLANTIC FISHERIES CONVENTION

Seals, harp and hood:

Federal Republic of Germany adheres to Protocol concerning; Sept. p. 52.

Portugal ratifies Protocol concerning; Feb. p. 52.

## NORTHWEST PACIFIC FISHERIES COMMISSION

Crab, king, catch quota for 1965 set by Japanese-Soviet negotiators in Western Pacific; June p. 43.

Japan:

prepares for \_\_\_\_\_ meeting; Mar. p. 83.

salmon catch quota for 1965; June p. 43.

schedules industry meetings to develop position for \_\_\_\_\_ meeting; Jan. p. 78.

U.S.S.R. fisheries negotiations, progress of; June p. 42.

Preconference views, Japanese and Soviet, on salmon and crab negotiations; May p. 53.

Salmon, Japanese-Soviet negotiators agree on joint inspection of fishery in Northwest Pacific Area B; June p. 43.

## NORTHWEST PACIFIC FISHERIES TREATY

Japanese views on extending \_\_\_\_\_; July p. 81.

## NORWAY

Agreement, fisheries, government-industry, aims to eliminate price subsidies by 1968; June p. 71.

Air-bubble curtain experiments prove effective; Sept. p. 73.

Anchor, folding, produced in \_\_\_\_\_; Nov. p. 70.

Canned fish exports, 1963-64; Aug. p. 90.

Canned fish exports; Feb. p. 76, Mar. p. 85, Apr. p. 79, May p. 84, June p. 67, July p. 88, Aug. p. 90, Sept. p. 72, Nov. p. 68, Dec. p. 76.

Canning firms may sponsor joint foreign sales promotion; Feb. p. 76.

Code:

Arctic resource, Soviet-Norwegian talks on; May p. 82.

fishery trends; May p. 81, Aug. p. 89, Oct. p. 90.

Lofoten fishery down in 1965; July p. 88.

Exhibition, fisheries, held Aug. 19-20, 1965; Sept. p. 73.

Expansion, fisheries; May p. 82.

Exports:

canned fishery products; Feb. p. 76, Mar. p. 85,

Apr. p. 79, May p. 84, June p. 67, July p. 88, Aug. p. 90, Sept. p. 72, Nov. p. 68, Dec. p. 76.

canned fish, 1963-64; Aug. p. 90.

to East Germany, 1964 and 1965; Apr. p. 80.

value of fishery products and byproducts at record high in 1964; May p. 83.

Fair, fisheries, emphasizes modern methods; Nov. p. 69.

Faroe Islands, \_\_\_\_\_ desires landing rights in; Feb. p. 59.

Fishing limits:

European "6-plus-6" convention, Government asks for industry views on; Jan. p. 82.

Nordic fishing organizations meet to discuss; Dec. p. 48.

Fish meal:

industry trends, 1964; Feb. p. 77.

processing plant, compact, built in \_\_\_\_\_; Aug. p. 36.

Fish sticks production plant in Trondheim; Feb. p. 75.

Ghana receives Norwegian-built trawlers; Jan. p. 72, May p. 67, Sept. p. 62.

## NORWAY

Government support to fisheries approved; general agreement on; Apr. p. 80.

Herring:

North Sea fishery continues good in Oct. 1965; Dec. p. 77.

North Sea fishery trends; Sept. p. 73, Oct. p. 90.

oil:

production, Jan.-Sept. 1964; Feb. p. 75.

production may reach 100,000 tons in 1965; Oct. p. 90.

supply and disposition, 1964, with comparisons; June p. 70.

winter fishery; May p. 81, July p. 88.

winter season's first week yields excellent catches; May p. 83.

Icelandic canning plant, new, contracts to sell output to \_\_\_\_\_ exporting firm; Nov. p. 60.

Kuwait receives shrimp vessels from \_\_\_\_\_ shipyard; Aug. p. 87.

Landings, fishery; Mar. p. 62, June p. 68.

Loan ceiling, higher, approved for State Fisheries Bank; Sept. p. 73.

Marine oil supply and disposition, 1964 with comparisons; June p. 70.

Oceanographic expedition made jointly with U.S.S.R.; Dec. p. 49.

Salmon season good; Feb. p. 76.

Sperm oil supply and disposition, 1964, with comparisons; June p. 70.

Studies of irradiation preservation of fishery products; July p. 59.

Trade protocol for fishery products signed with U.S.S.R.; Aug. p. 65.

Training for Ghanaian fisheries personnel, \_\_\_\_\_ agrees to help provide; May p. 67.

Trends, fisheries, Nov. 1964; Feb. p. 75.

U.S.S.R., joint talks on fisheries with; June p. 44.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.

Vessel, fishing:

export expanded; Aug. p. 91.

imports from East Germany in 1965 considered; Apr. p. 80.

West Africa, fishing off the coast of; Feb. p. 75.

Whale meat to be purchased by Japanese from \_\_\_\_\_ whaling fleet; Sept. p. 70.

Whale oil:

Antarctic production, 1964/65 and 1963/64; June p. 69.

stocks for 1963/64 season sold out; Mar. p. 86.

supply and disposition, 1964, with comparisons; June p. 70.

Whaling:

Antarctic:

catch, 1964/65; June p. 45.

expeditions to participate in 1965/66 season; Oct. p. 91.

1965/66 season, recommendations for; Oct. p. 91.

1964/65 season; Jan. p. 60, Apr. p. 80.

Japanese-\_\_\_\_\_ joint venture; Oct. p. 85.

## OCEAN ENGINEERING

Laboratory in Maryland for \_\_\_\_\_ and research, private firm plans to build; May p. 29.

## OCEANOGRAPHY

Air-sea currents, conference held on dynamics of; Jan. p. 41.

## OCEANOGRAPHY (cont.)

- Arctic:  
 basin research by U. S. Coast Guard; Feb. p. 29.  
 Siberian, U. S. Coast Guard cutter "Northwind" completes major study in; Dec. p. 42.
- Atlantic coast surface currents, new study on; Apr. p. 31.
- Buoys, unmanned, study being made off Massachusetts of; Dec. p. 44.
- California Marine Research Center being established by University of Southern California; Nov. p. 19.
- Camera system, underwater, developed for work at great depths; Feb. p. 37.
- Central Pacific:  
 bathythermograph, expendable, equipment tested by M/V "Charles H. Gilbert"; May p. 14.  
 data collected by M/V "Charles H. Gilbert"; Aug. p. 28.  
 studies continued by M/V "Charles H. Gilbert"; June p. 18.  
 submarine for underwater research brings new discoveries; Dec. p. 29.  
 trade wind zone studies continued by M/V "Townsend Cromwell"; Jan. p. 23, Feb. p. 17, Mar. p. 27, Apr. p. 19, May p. 15, July p. 20, Aug. p. 32, Sept. p. 21, Oct. p. 29.
- Civil Service Commission, minimum educational requirements for Federal positions revised; July p. 98.
- Coast and Geodetic Survey, U. S., vessels chart and survey the oceans; Apr. p. 30.
- Coast Guard, U. S.:  
 broadens participation in \_\_\_\_\_; Feb. p. 29.  
 cutter "Northwind" to study northern waters; Sept. p. 40.  
 expands research effort in 1964; Feb. p. 29.
- Commercial Fisheries, Bureau of, students train aboard research vessel; Sept. p. IV.
- Conference and exhibit on ocean science and engineering at Washington, D. C.; Mar. p. 45, Aug. p. 49, Dec. p. 43.
- Cuban-Soviet:  
 fishery and \_\_\_\_\_ research in the Gulf of Mexico and Caribbean; Oct. p. 70.  
 study in Gulf of Mexico and South Atlantic; Apr. p. 66.
- Echo-sounder, improved, "sound pictures" of fish schools may be possible with; Mar. p. 45.
- Educational grants for 1965 awarded by Interior Department; July p. 39.
- Food chain, marine, basic link discovered in; Apr. p. 29.
- Guinea, Gulf of:  
 current survey by M/V "Geronimo"; Oct. p. 54.  
 expedition, fourth, completed by U. S. Bureau of Commercial Fisheries research vessel "Geronimo"; July p. 40.  
 surveyed by M/V "Geronimo"; Jan. p. 43.
- Gulf Stream to be surveyed by oceanographic scientists; Nov. p. 100.
- Intergovernmental Oceanographic Commission establishes Working Group on Mutual Assistance; May p. 55.
- International conference on tropical \_\_\_\_\_; July p. 58.
- International Indian Ocean Expedition, fishery observations during research vessel "Anton Bruun" cruise off East Africa; Apr. p. 49.

## OCEANOGRAPHY

- Japanese fish spotting and hydrographic observations, aircraft to be used for; June p. 63.
- Maine, University of, resumes marine research; Sept. p. 31.
- Miami Institute of Marine Science, M/V "John Elliott Pillsbury" starts long expedition; July p. 41.
- Mediterranean, General Fisheries Council for, topic on \_\_\_\_\_ on agenda of 8th Annual Session; July p. 56.
- Merit badge in \_\_\_\_\_ awarded to Boy Scouts; July p. 125.
- Naval aircraft squadron, new, commissioned to conduct research; Oct. p. 48.
- New England, southern, as a marine research center, new organization works to develop; July p. 38.
- Nordic cultural commission discusses \_\_\_\_\_ at Helsinki meeting; Mar. p. 66.
- North Atlantic Continental Shelf waters surveyed; Feb. p. 35, July p. 35.
- Ocean Science and Ocean Engineering Conference to be held; May p. 30.
- Pacific coast, water temperature changes, tuna fishery affected by erratic changes, July-August 1965; Nov. p. 36.
- Pacific ocean, central, observations and collection of \_\_\_\_\_ data by M/V "Charles H. Gilbert"; Jan. p. 23.
- Plankton:  
 cooperative international cruise to use "sound pictures" to study; Nov. p. 76.  
 net tests in Hawaiian waters, results of; Oct. p. 27.
- Private firm plans to open fishing gear development base in Florida and "sea lab" in Maryland; May p. 29.
- Rhode Island, University of, expands \_\_\_\_\_ center; June p. 30.
- Sea-bed drifters:  
 aid in studying water currents; Jan. p. 41.  
 released by U. S. research vessel returned by Soviet trawler; Nov. p. 8.
- "Sea-grant" colleges, proposed, to be discussed at University of Rhode Island Conference, Oct. 28-29, 1965; Sept. p. 41.
- "Sea Lab II" report will be featured at symposium in Washington, D. C.; Dec. p. 43.
- Seamount in south Atlantic Ocean holds key to new studies; Feb. p. 13.
- Silicon, radioactive, new method of extracting from sea water developed; Mar. p. 46.
- Soviet:  
 fishery research in the Pacific Ocean; Apr. p. 86.  
 group visits U. S. under scientific exchange program; Dec. p. 49.
- Norwegian-Soviet expedition; Dec. p. 49.
- Submarine:  
 deep-diving, tested in trial dives by Woods Hole Oceanographic Institution; Jan. p. 42.  
 explores sea floor off Rhode Island, Aug. p. 50.  
 research vehicle, nuclear-powered, plans studied by Interior Department for; Aug. p. 50.  
 studies off Hawaii; Oct. p. 28.
- Temperatures, low water, affect Pacific coastal fishery for albacore and bluefin tuna in July 1965; Nov. p. 36.
- Vessels, research:  
 "David Starr Jordan" launched; Feb. p. 45.  
 "Eastward" dedicated by Duke University; July p. 41.
- Miami conference on; Apr. p. 31.

## OCEAN PERCH

- Fillets, irradiation preservation of fresh \_\_\_\_;  
 Oct. p. 1.  
 Japan, Gulf of Alaska gill-net bottomfish fishery,  
 catch of \_\_\_\_ in; Dec. p. 1.  
 Landings, U. S., different periods; Feb. p. 42, Oct.  
 p. 56.  
 New England landings in 1964 and forecast for 1965;  
 Feb. p. 30.  
 North Atlantic, trawling, off-bottom, for \_\_\_\_ by  
 M/V "Delaware"; Apr. p. 26.

OCEAN SCIENCE AND OCEAN ENGINEERING CON-  
FERENCE AND EXHIBIT

Conference to be held; May p. 30.

## OCTOPUS

New Caledonia, \_\_\_\_ a delicacy in; July p. 97.

OIL, FISH (see FISH OIL and INDUSTRIAL FISHERY  
PRODUCTS)OIL, MARINE (see FISH OIL and INDUSTRIAL FISHERY  
PRODUCTS)

## OKHOTSK SEA

Bottomfish, Japanese fleets, three, operating in  
 \_\_\_\_; Nov. p. 64.

Ctab, King:

Japanese fleets depart for \_\_\_\_; June p. 60.  
 U.S.S.R. canned production from \_\_\_\_, 1958-64;  
 Mar. p. 91.

Japanese:

catch of Alaska pollock in \_\_\_\_ and liver-oil  
 production, April-June 1965; Dec. p. 70.  
 firms propose to buy Soviet-caught \_\_\_\_ pollock  
 for fish meal; July p. 82.

## OKINAWA

Japanese fishing vessels, shortage in \_\_\_\_ labor  
 force for use on; Feb. p. 70.

## OREGON

- Clam species especially suited to bays and estuaries  
 introduced on test basis; July p. 43.  
 Columbia River flood damage to fish facilities in  
 late 1964; Mar. p. 28.  
 Crabs, Dungeness, marked with "spaghetti" tags;  
 July p. 43.  
 Flood damage to fishery facilities in the Columbia  
 River system, Federal funds allocated to repair;  
 Aug. p. 33.  
 Legislative actions affecting fisheries; Apr. p. 37.  
 Sablefish found in deep water off the mouth of the  
 Columbia River, distribution, abundance, and size  
 of; Nov. p. 1.  
 Salmon:  
 chinook:  
 fish, live, experimental holding facility for lower  
 Deschutes River; Oct. p. 49.  
 fish, young, released in expectation of Willamette  
 River pollution improvement; Nov. p. 32.  
 spring plantings increase in the Willamette River;  
 June p. 31.  
 Willamette River, large-scale planting in; Apr.  
 p. 32.  
 yearlings released during flood emergency, good  
 downstream passage reported for; July p. 42.  
 Columbia River summer fishing season, closure  
 of; Aug. p. 33.

## OREGON

Salmon:

plantings, large-scale hatchery, under way; May  
 p. 30.  
 returns of fall chinook and silver to lower Colum-  
 bia River hatcheries in 1964 excellent; Mar. p. 47.  
 silver transplants may help build runs in Willam-  
 ette River system; Jan. p. 43.

Shrimp:

fishery trends, summer 1965; Oct. p. 48.  
 resources off \_\_\_\_ coast surveyed by M/V "N. B.  
 Scofield"; Mar. p. 23.  
 Steelhead stocking program; July p. 43.

Tuna:

albacore:

coastal fishery affected by unusually low water  
 temperatures in July 1965; Nov. p. 36.  
 fishery affected by erratic water temperature  
 changes, July-August 1965; Nov. p. 36.

Whale catch, 1964; Feb. p. 46.

Willamette Falls fishway, construction of new, tem-  
 porarily delayed; Oct. p. 48.

ORGANIZATION FOR ECONOMIC COOPERATION AND  
DEVELOPMENT

Canned fish, sanitary regulations drafted at \_\_\_\_  
 meeting of experts for; Jan. p. 59.

Fisheries Committee of \_\_\_\_ meets for its 11th  
 Session; Feb. p. 52.

Quality standards for certain fishery products, meet-  
 ing of experts studying; Jan. p. 59.

Subsidies, Fisheries Committee position and its re-  
 lation to Norwegian government-industry fisheries  
 agreement; June p. 71.

## OYSTERS

Canada, hatchery, experimental, opened on Prince  
 Edward Island; Jan. p. 69.

Defense Subsistence Supply Center, shucked \_\_\_\_  
 new purchasing specifications for; Apr. p. 20.

Denmark's season for 1965/66 starts in Jutland;  
 Dec. p. 53.

Disease, new parasite, under study; July p. 44.

Fresh and frozen shucked raw \_\_\_\_, Federal spec-  
 ification proposed for; Nov. p. 20.

Harvesting \_\_\_\_, airlift for; Jan. p. 15.

Loans, emergency, to Louisiana \_\_\_\_ planters au-  
 thorized by U. S. Department of Agriculture for  
 hurricane damage; Dec. p. 84.

Maryland:

observations for 1965; Oct. p. 50.  
 spatfall observations for 1964; Jan. p. 44.

MSX:

seasonal behavior discussed at annual meeting of  
 National Shellfish Association; Sept. p. 49.  
 studies, Virginia scientist receives grant for; Dec.  
 p. 44.

New Jersey, Federal grant to aid industry; Sept. p. 34.  
 North America, \_\_\_\_ Institute of, annual convention;  
 July p. 43.

Potomac River Fisheries Commission, regulations  
 for \_\_\_\_ promulgated by; May p. 31.

Seed culture programs conducted by Atlantic coastal  
 states; May p. 35.

Shucking, new method of preparing for; Apr. p. 32.  
 South Carolina studies; Mar. p. 51, Sept. p. 44.

Virginia:

Institute of Marine Science, shellfish mortality con-  
 ference held, 7th annual; Apr. p. 36.

## OYSTERS (cont.)

- Virginia (cont.):
- seed areas opened, new, May p. 30.
- Washington, ARA to continue industry study in Willapa Bay; June p. 82.

## OYSTER INSTITUTE OF NORTH AMERICA

- Clam, surf (sea), survey off Atlantic coast, 1964 progress report on; Feb. p. 18.

## PACIFIC HALIBUT COMMISSION, INTERNATIONAL

- Annual meeting; Mar. p. 60.
- Fishing in area 3A ended August 26, 1965; Nov. p. 41.
- North Pacific regulations for 1965; Apr. p. 43.
- Pacific fishing closure in areas 1, 2, 3A, and 3B South; Nov. p. 41.

## PACIFIC ISLANDS

- Fisheries trends, early 1965; Aug. p. 92.
- Lobsters, spiny, freezing and processing plant opens in \_\_\_\_\_; Sept. p. 73.
- Pearl culture in the Society Islands (French Polynesia) and New Guinea under study; Aug. p. 92.

## PACIFIC NORTHWEST

- Salmon, canned stocks; Jan. p. 45, Feb. p. 37, Mar. p. 26, Apr. p. 33, May p. 31, June p. 32, July p. 45, Aug. p. 52, Sept. p. 41.

## PACIFIC MARINE FISHERIES COMMISSION

- Annual meeting held; Jan. p. 44.

## PACIFIC OCEAN

- Central north \_\_\_\_\_, oceanographic studies of trade wind zone continued by M/V "Townsend Cromwell" in; Jan. p. 23, Mar. p. 27.
- Eastern:
- tuna:
- forecast of coastal area catch, 1965; July p. 49.
- yellowfin:
- fisheries in \_\_\_\_\_, intergovernmental meeting on regulation of; June p. 42.
- quota recommended by Inter-American Tropical Tuna Commission; June p. 41.
- North, whaling floating factoryship type operations by U.S.S.R.; Jan. p. 94.
- Soviet fishery research in the \_\_\_\_\_; Apr. p. 86.
- Trawl fishery, Japanese to study licensing of vessels for northeastern \_\_\_\_\_; Feb. p. 67.

## PACIFIC OCEAN PERCH (see OCEAN PERCH)

## PACIFIC SALMON FISHERIES COMMISSION, INTERNATIONAL

- Pink and sockeye:
- fishery trends in Convention waters, early Sept. 1965; Nov. p. 43.
- Fraser River fishery trends, July 1965; Oct. p. 62.
- regulation for 1965 fishery in North Pacific; Apr. p. 45.

## PACKAGED FISH

- Sweden, frozen \_\_\_\_\_ market trends; May p. 87.

## PACKAGING

- Palletized unit loads for canned tuna purchases to be required by Defense Subsistence Supply Center on test basis; Aug. p. 35.
- Plastic fish boxes, new, to aid fresh fish marketing; Dec. p. 21.

## PAKISTAN

- Catfish in Ganges Delta area, FAO expert finds great schools of; Apr. p. 81.
- Exports of fishery products in FY 1963/64; Mar. p. 86.
- Fisheries investment opportunity; July p. 88.
- Shrimp industry potential and investment possibilities; Oct. p. 91.
- United Nations Special Fund:
- development project to aid fisheries in East \_\_\_\_\_; May p. 56.
- research in fisheries of East \_\_\_\_\_ assisted by; Apr. p. 51.

## PANAMA

- Fisheries development outlook; Dec. p. 77.
- Fishery trends, 1964 and early 1965; Oct. p. 91.
- Lobsters, exploratory fishing for spiny and sand types; Apr. p. 1.
- Scallops, exploratory fishing in \_\_\_\_\_; Apr. p. 1.
- United Nations Special Fund, fishery and oceanographic research in \_\_\_\_\_, assistance given for; Apr. p. 50.
- U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.

## PAOLINS

- Antimicrobial substances in clams possess tumor-preventive activity; Nov. p. 99.

## PAPUA-NEW GUINEA

- Fisheries potential of \_\_\_\_\_, Mar. p. 86.
- Fishing venture proposed in \_\_\_\_\_ with Australian-Japanese capital; Aug. p. 92.
- Lobsters, spiny, freezing and processing plant opens; Sept. p. 73.

## PARASITE

- Oyster \_\_\_\_\_ disease, new, under study; July p. 44.

## PEARLS

- Culture of \_\_\_\_\_ in the Society Islands (French Polynesia) and New Guinea under study; Aug. p. 92.
- Japan:
- cultured, export target for fiscal year 1965; July p. 80.
- cultured \_\_\_\_\_; Mar. p. 129.

## PELAGIC FISH

- California:
- population survey continued:
- airplane spotting; Mar. p. 22, Apr. p. 16, Aug. p. 26.
- M/V "Alaska"; Mar. p. 20, Apr. p. 14, May p. 13, July p. 18, Aug. p. 25.
- International Council for the Exploration of the Sea, ecology of \_\_\_\_\_ species in Arctic waters, symposium planned on; Jan. p. 59.
- North Pacific hake population survey continued by M/V "John N. Cobb"; Aug. p. 47, Oct. p. 45, Dec. p. 41.
- South Africa catch; Jan. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 70.
- South-West Africa catch at Walvis Bay; Jan. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 71.

## PELAGIC FISHING

- North Pacific:
- experimental \_\_\_\_\_ by M/V "St. Michael"; Feb. p. 35.

## PELAGIC FISHING (cont.)

## North Pacific (cont.):

- newly-designed \_\_\_\_\_ trawl (lampara) tested by "St. Michael"; Jan. p. 39.  
trawls, modified, for \_\_\_\_\_ being tested; Oct. p. 44.

## PELAGIC TRAWL (see TRAWL)

## PENNSYLVANIA

- Labeling requirements, new ruling issued on; Jan. p. 37.

## PERCH, YELLOW

- Lake Michigan, experimental trawling continued by M/V "Kaho" in; Sept. p. 27.

## PERSIAN GULF

## Shrimp:

- Anglo-Arabian fishing venture in \_\_\_\_\_; Mar. p. 87.  
British-Arabian fishing venture to be managed by U. S. experts; Dec. p. 78.

## PERU

- Anchovy population presently shows no sign of depletion; Apr. p. 81.  
Catch limits to conserve fish resources, Government of \_\_\_\_\_ reported to be considering the introduction of; Apr. p. 47.  
Exports of principal marine products, 1963-64; July p. 90.  
Fishery catch in 1963 tops that of all other nations; Jan. p. 83.  
Fish meal:  
industry trends; Jan. p. 83, Feb. p. 77, June p. 73, July p. 89.  
output continues heavy in spite of fishing uncertainties in March 1965; June p. 72.  
production in 1965 may be curtailed by conservation measures and labor dispute; May p. 85.  
production trends and outlook, early 1965; June p. 72.  
situation late August 1965; Nov. p. 70.  
Fish oil:  
exports, Jan.-Apr. 1965; July p. 90, Sept. p. 74, Nov. p. 70.  
industry trends and outlook, Oct. 1964; Feb. p. 77.  
supply and disposition, 1961-64; July p. 89.  
Sperm oil exports, 1963-64; July p. 90.  
United Nations Special Fund, fishery research in \_\_\_\_\_, assistance given for; Apr. p. 50.  
U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.  
Whale oil exports, 1963-64; July p. 90.

## PESTICIDES

- Alaska \_\_\_\_\_ program, new, started; Aug. p. 23.  
Danger of chemical \_\_\_\_\_ to marine life under study; Nov. p. 33.  
Food and Agriculture Organization asks tight control of \_\_\_\_\_; Mar. p. 95.  
Interior Department:  
guidelines for testing \_\_\_\_\_ developed by; May p. 94.  
requests removal of ceiling on \_\_\_\_\_ research program; May p. 95.

## PHILIPPINES

- Australia contributes funds to start fish farming in \_\_\_\_\_; Sept. p. 57.

## PHILIPPINES

- Canned fish, Japanese bids accepted on; Dec. p. 78.  
Purse-seine fishery being developed; Jan. p. 84.  
Sardines, Maine industry hopes to sell to \_\_\_\_\_; Feb. p. 28.  
United Nations Special Fund:  
fishery project for \_\_\_\_\_; Oct. p. 64.  
research in fisheries in \_\_\_\_\_ assisted by; Apr. p. 51.

## PHOTOGRAPHY

- Camera use studied to fish for royal-red shrimp and calico scallop off Florida east coast; Mar. p. 49.  
Underwater camera system developed for work at great depths; Feb. p. 37.

## PICKLED FISH (see CURED FISH)

## PILCHARD

- New Zealand, grant awarded university for \_\_\_\_\_ research; Aug. p. 89.  
South Africa:  
Cape west coast catch; Jan. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 70, Dec. p. 79.  
fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 87, May p. 87, June p. 76, Aug. p. 93, Nov. p. 70, Dec. p. 79.

## PILCHARD-MAASBANKER

- South-West Africa fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 88, May p. 87, June p. 76, Aug. p. 93, Nov. p. 71, Dec. p. 79.

## PIRANHA

- Brazil, eradication of \_\_\_\_\_ can add to commercial fishery potential; Mar. p. 89.

## PLANKTON

- Central Pacific:  
results of \_\_\_\_\_ net tests in Hawaiian waters; Oct. p. 27.  
submarine for underwater research brings new discoveries; Dec. p. 29.  
Gulf of Maine, distribution of zoo \_\_\_\_\_ studied by M/V "Rorqual"; Nov. p. 31.  
Oceanographic cruise, cooperative international, to use "sound pictures" to study \_\_\_\_\_; Nov. p. 76.

## PLASTIC FISH BOX(ES)

- Fresh fish marketing, new \_\_\_\_\_ to aid; Dec. p. 21.

## POLAND

- African trawling activities, Sept. 1964; Feb. p. 78.  
Atlantic fisheries expansion; Dec. p. 78.  
"Dalmor" State-owned fisheries group, status in 1965 of reorganized; June p. 74.  
Danish fishing limits, fishing vessels from \_\_\_\_\_ charged with violations of; Mar. p. 61.  
Denmark and \_\_\_\_\_ fishery organizations hold meetings aimed at fisheries cooperation; June p. 75.  
Employment, expected, in State-owned fisheries during 1965; June p. 75.  
Exports, fisheries:  
goals for 1965; June p. 75.  
1964; June p. 76.  
Fisheries:  
expansion planned in 1966-70; Aug. p. 92.  
goals, 1965; June p. 74.  
trends, Sept. 1964; Feb. p. 78, June p. 75.



## POLAND (cont.)

- Fishermen and vessel from \_\_\_\_\_ sent to train Indian fishermen in trawling; June p. 75.  
 Fish-freezing base established at Ostend (Belgium) by \_\_\_\_\_; May p. 86.  
 Harbor expansion project at Szczecin; Feb. p. 78.  
 Imports of fishery products, 1964; June p. 76.  
 Landings:  
   fisheries plan for 1980; Dec. p. 78.  
   fishery, in 1963; Mar. p. 63, June p. 75.  
   goals, 1965; June p. 74.  
 Motherships, fishery, to be built, three new; May p. 86.  
 Nigerian fresh-water fisheries, \_\_\_\_\_ sends fish-breeding experts to aid; June p. 75.  
 North Atlantic:  
   North American coast, fishing activity off; Nov. p. 32, Dec. p. 41.  
   waters surveyed by research vessel; Oct. p. 94.  
 North Sea:  
   and Northwest Atlantic fisheries, 1964; May p. 85.  
   1964 herring season profitable; May p. 85.  
 Processed fishery products production, 1964; June p. 76.  
 Processing, fisheries, goals for 1965; June p. 74.  
 Research station, new fisheries, established on Baltic Sea at Kolobrzeg; June p. 75.  
 Territorial waters of \_\_\_\_\_, Danish and West German salmon cutters fined for entering; Mar. p. 61.  
 Trawler(s):  
   fishes Georges Bank for hake; May p. 85.  
   freezer, land frozen cod fillets at Ostend (Belgium); May p. 85.  
 Trawling off the South Africa Republic; Dec. p. 80.  
 Tuna canning experiments; Aug. p. 92.  
 Vessels:  
   built at Gdynia for French and British firms; Oct. p. 84.  
   construction plans; Dec. p. 78.  
   designs, new fishing; Aug. p. 92.  
   factory-trawler, new, launched at Gdansk; Feb. p. 78.  
   factory trawlers, freezer trawlers, and cutters to be delivered to domestic fishing groups in 1965; June p. 74.  
   fishing, second congress of Socialist countries attended by \_\_\_\_\_; May p. 57.  
   fishing fleet:  
     development and status in 1964; June p. 76.  
     size, 1961-63, and estimates for 1964; Feb. p. 78.

## POLLOCK

- Alaska:  
   Japanese catch in Sea of Okhotsk and liver-oil production, April-June 1965; Dec. p. 70.  
   Japanese Government's policy on imports from U.S.S.R. questioned; Dec. p. 70.  
 Fillets, irradiation preservation of fresh \_\_\_\_\_; Oct. p. 1.  
 Japan:  
   factoryship to buy \_\_\_\_\_ for fish meal from Soviet fishing vessels; Mar. p. 83.  
   firms propose to buy Soviet-caught \_\_\_\_\_ for fish meal; July p. 82.  
   price negotiation with Soviet Union deadlocked; Nov. p. 67.  
   U.S.S.R., firms to buy Alaska \_\_\_\_\_ from; Oct. p. 83.

## POLLUTION

- Food and Agriculture Organization:  
 Advisory Committee discusses \_\_\_\_\_ at annual meeting; June p. 40.

## POLLUTION

- Food and Agriculture Organization:  
 Indo-Pacific Fisheries Council, \_\_\_\_\_ discussed at 11th session of; Mar. p. 64.  
 Pesticides, danger of chemicals to marine life under study; Nov. p. 33.  
 Willamette River:  
   reduced \_\_\_\_\_ threat to salmon; Oct. p. 51.  
   salmon, young, released in expectation of \_\_\_\_\_ improvement; Nov. p. 32.

## POLYNESIA, FRENCH

- Pearl culture under study in the Society Islands; Aug. p. 92.

## POND(S)

- South Carolina \_\_\_\_\_ studies for fish and shrimp culture; Mar. p. 52, May p. 39, Sept. p. 45.  
 Shrimp cultivation in artificial \_\_\_\_\_; Dec. p. 34.

## POND FISH (see FISH CULTURE)

## PORPOISE (see DOLPHIN)

## PORTUGAL

- Angola fish meal industry modernization program aided by Government loan; June p. 45.  
 Canned fish:  
   exports; Jan. p. 85, Mar. p. 87, July p. 90, Sept. p. 74, Dec. p. 79.  
   industry outlook for 1965; Aug. p. 93.  
   pack; Mar. p. 87, July p. 90, Sept. p. 74, Dec. p. 79.  
 Fishery projects, priority, under new Three-Year Economic Development Plan (1965-67); Jan. p. 85.  
 Frozen fish-packing firm, operations of large; Aug. p. 91.  
 International Convention for the Northwest Atlantic Fisheries, harp and hood seals protocol ratified by \_\_\_\_\_; Feb. p. 52.  
 Landings, fishery, in 1963; Mar. p. 63.  
 Lisbon fish market, new; May p. 86.  
 Mozambique fisheries enterprise being developed by \_\_\_\_\_-South African group; June p. 65.  
 Sardines, 1964 fishing season reported one of best; Apr. p. 82.  
 U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## POTOMAC RIVER FISHERIES COMMISSION

- Clams, soft-shell:  
   harvesting, certain areas closed to; Aug. p. 33.  
   regulations for; May p. 31.

## PRESERVATION (also see IRRADIATION PRESERVATION)

- Conference on design of fishing vessels and their equipment in relation to fish quality improvement; Sept. p. 78.  
 Irradiation \_\_\_\_\_, fishery products pasteurization with gamma rays from cobalt-60 source; Oct. p. 1.  
 Method of preserving fish in antibiotic ice patented in England; Apr. p. 88.  
 Research on \_\_\_\_\_, grant to University of Washington for; Mar. p. 31.

## PRIBILOF ISLANDS

- Fur seal skin harvest in 1965; Dec. p. 31.

## PRICES

- Ex-vessel, New England and Danish comparative \_\_\_\_\_ trends for selected species; Nov. p. 53.

## PRICES (cont.)

## Retail:

edible fishery products; Oct. p. 37.  
indexes for fishery products \_\_\_\_\_, 1963-65, by  
Bureau of Labor Statistics; Aug. p. 51.

Wholesale \_\_\_\_\_ for edible fish and shellfish; Jan.  
p. 53, Feb. p. 46, Mar. p. 58, Apr. p. 41, May p.  
47, June p. 37, July p. 53, Aug. p. 57, Sept. p. 49,  
Oct. p. 59, Nov. p. 38, Dec. p. 45.

## PROCESSED EDIBLE FISHERY PRODUCTS

Imports and exports; Jan. p. 50, Feb. p. 44, Mar.  
p. 56, May p. 47.

## PROCESSING

Coloring treatment, dyeless, for dark-meat fish de-  
veloped in New Zealand; Jan. p. 82.

Crabs, king, technology of \_\_\_\_\_, conference on;  
Jan. p. 26.

Japanese factoryship \_\_\_\_\_ of gill-net caught bot-  
tomfish in Gulf of Alaska; Dec. p. 1.

## PUBLICATIONS

Fish and Wildlife Service \_\_\_\_\_; Jan. p. 105, Feb.  
p. 98, Mar. p. 107, Apr. p. 99, May p. 104, June  
p. 91, July p. 109, Aug. p. 110, Sept. p. 87, Oct.  
p. 114, Nov. p. 85, Dec. p. 87.

Miscellaneous fishery \_\_\_\_\_; Jan. p. 109, Feb. p.  
99, Mar. p. 109, Apr. p. 102, May p. 106, June p.  
93, July p. 111, Aug. p. 112, Sept. p. 89, Oct. p.  
116, Nov. p. 86, Dec. p. 89.

## PUBLIC HEALTH SERVICE

Medical care for commercial fishing vessel owner-  
operators; Jan. p. 98, May p. 94.

National Shellfish Sanitation Meeting, health pro-  
tection of U. S. shellfish consumers emphasized  
at; Feb. p. 39.

## PUERTO RICO

Legislative actions affecting fisheries; Sept. p. 47.

Tuna, frozen:  
cost of shipping Japanese-caught Indian Ocean  
product to \_\_\_\_\_; Feb. p. 63.

## Japan:

albacore shipments to \_\_\_\_\_; Oct. p. 81.  
exports to \_\_\_\_\_; Aug. p. 73, Sept. p. 64.  
shipments to \_\_\_\_\_ canneries, 1964; May p. 31.

## Wage order program:

food and related products industry in \_\_\_\_\_; May  
p. 98.  
revised, for industries in \_\_\_\_\_, Virgin Islands,  
and American Samoa announced; Mar. p. 100.

## PUFFER FISH

Japan, \_\_\_\_\_ culinary delight in; Feb. p. 110.

## PURIFICATION

Rinsing water \_\_\_\_\_ process found profitable in  
Danish filleting plant; Feb. p. 58.

## PURSE SEINE

Herring \_\_\_\_\_ in Alaska; Aug. p. 1.  
Philippines, new \_\_\_\_\_ fishery being developed in;  
Jan. p. 84.  
South Africa, Cape shoal fishery, \_\_\_\_\_ nets may  
revolutionize; Jan. p. 90.

## QUAHOG

Black, catches of \_\_\_\_\_ made in conjunction with  
Atlantic surf clam survey by M/V "Delaware";  
June p. 30.

## QUALITY

Boxing fish at sea improves \_\_\_\_\_, British say;  
Aug. p. 96.

Denmark, imports of fresh fish, \_\_\_\_\_ controls  
strict for; Nov. p. 56.

## Massachusetts:

containers, sterilized and clean, to be used in  
handling fish at ports; May p. 24.  
revises methods of handling fish from vessel to  
improve \_\_\_\_\_; May p. 24.

## Vessel, fishing:

conference on design and equipment in relation to  
fish \_\_\_\_\_ improvement; Sept. p. 78.  
design and fish \_\_\_\_\_ improvement, meeting to be  
held in London on; Apr. p. 88.

## RADAR

Gear-marking devices for use with shipboard \_\_\_\_\_  
tested off Alaska; Feb. p. 14.

RADIATION PRESERVATION (see IRRADIATION  
PRESERVATION)

## RECIPE(S)

Crab foo yung; May p. 120.

Fish portions with almond cheese sauce; Mar. p. 132.

Red snapper with curry sauce; Mar. p. 132.

Salmonburgers--so what's new with burgers and  
barbecue; July p. 126.

Seafood styles, a spring showing of; Mar. outside  
back cover.

## Shrimp:

Christmas tree; Dec. p. 107.

in sour cream; Mar. p. 132.

omelet, shrimp and mushroom, for breakfast; Jan.  
outside back cover.

-stuffed mushroom appetizers; Oct. p. 113.

-vegetable platter; Nov. p. 77.

Spring-style \_\_\_\_\_, three; Mar. p. 132.

## Tuna:

creole chowder for busy people; July p. 11.

macaroni casserole; Aug. p. 126.

pizza burgers for the gang; Oct. p. 130.

teen-age cooks, \_\_\_\_\_ for; May p. 90.

## RED SNAPPER

Recipe for \_\_\_\_\_ with curry sauce; Mar. p. 132.

## RED TIDE

Florida, phytoplankton and chemical studies related  
to \_\_\_\_\_; Mar. p. 32.

## REGULATIONS

Antidumping \_\_\_\_\_, changes announced in; Feb. p. 91.

## RESEARCH

California, Marine \_\_\_\_\_ Center being established  
by University of Southern California; Nov. p. 19.

Commercial Fisheries \_\_\_\_\_ and Development  
Act of 1964; grant-in-aid funds apportioned to  
States for FY 1966; Sept. p. 22.

Maine, University of, resumes marine \_\_\_\_\_; Sept.  
p. 31.

## RESEARCH (cont.)

- U. S.-Mexican exchange of scientific fishery data; Dec. p. 49.  
 Virginia Institute of Marine Science gets funds to support training program for teachers and students in summer of 1965; Feb. p. 45.

## RESERVOIRS

- Oahe \_\_\_\_\_ trawling studies by R/V "Hiodon"; Nov. p. 24, Dec. p. 37.  
 Vessel for fishery research in \_\_\_\_\_, new type; Aug. p. 42.

## RETAIL PRICES (see PRICES)

## RHODE ISLAND

- Fishermen's forum, one-day, at \_\_\_\_\_ University; Apr. p. 32.  
 Landings, fishery: 1963; Jan. p. 38. 1964; Aug. p. 52.  
 Oceanographic center, University of \_\_\_\_\_ expands; June p. 30.  
 "Sea-grant" colleges, proposed, to be discussed at University of \_\_\_\_\_ Conference, Oct. 28-29, 1965; Sept. p. 41.  
 Silicon, radioactive, new method of extracting from sea water developed by \_\_\_\_\_ University; Mar. p. 46.  
 Submarine used to explore sea floor off \_\_\_\_\_; Aug. p. 50.

## RHODESIA

- United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 50.

## ROCKFISH

- Alaska, large potential for \_\_\_\_\_ seen off southeast coast; Aug. p. 24.  
 Japan, Gulf of Alaska gill-net bottomfish fishery, catch of \_\_\_\_\_ in; Dec. p. 1.

## ROE

- Herring:  
 Alaska:  
   harvest of kelp and \_\_\_\_\_, 1965; Sept. p. 18.  
   Japanese firm interested in buying \_\_\_\_\_; May p. 12.  
 Japan, \_\_\_\_\_ on kelp popular in; Mar. p. 81.  
 Salmon, Japanese imports from U. S. and Canada in 1965; July p. 80.

## ROTNONE

- Piranha, chemical \_\_\_\_\_ recommended by U. S. survey team in Brazil for; Mar. p. 69.

## ROUGH FISH

- Iowa \_\_\_\_\_ removal program, 1964; May p. 22.  
 Reduction process to convert raw fish into thiamine-free press cake; Dec. p. 13.  
 TVA commercial \_\_\_\_\_ explorations, trawler purchased for; Nov. p. 34.

## RUMANIA

- Faroe Islands, \_\_\_\_\_ factory trawlers off; Feb. p. 59.  
 Mackerel, frozen, Japanese exports to \_\_\_\_\_; Jan. p. 79.  
 North American coast, fishing activity off; Nov. p. 32, Dec. p. 41.

## RUMANIA

- Trawlers, stern, two fish off northwest Africa; Apr. p. 82.  
 Vessel, fishing, second Congress of Socialist countries attended by \_\_\_\_\_; May p. 57.

## RYUKYU ISLANDS

- Tuna fisheries investment opportunity in \_\_\_\_\_; Jan. p. 36.  
 White paper on 1964 fisheries; Oct. p. 95.

## SABLEFISH

- Distribution, abundance, and size of \_\_\_\_\_ (Anoplopoma fimbria) found in deep water off the mouth of the Columbia River; Nov. p. 1.  
 Japan, Gulf of Alaska gill-net bottomfish fishery, catch of \_\_\_\_\_ in; Dec. p. 1.

## SAFETY AT SEA

- Explosive hazards at sea; Nov. p. 33.  
 Vessels, damaged, new system to help keep afloat; Jan. p. 36.

## SAFETY DEVICES

- Fire extinguishers, certain dry chemical, require pressure gauges; Mar. p. 57.

## SAFETY OF LIFE AT SEA, INTERNATIONAL CONVENTION FOR THE

- Enters into force; Aug. p. 64.

## SAGINAW BAY

- Great Lakes, trawling studies by M/V "Kaho"; Oct. p. 32.

## SALMON

- Alaska:  
   a real bargain, \_\_\_\_\_ makes; Feb. p. 112.  
   Bristol Bay in 1965, good run forecast for; Apr. p. 12.  
   fishing season about over for 1965; Nov. p. 17.  
   runs to Prince William Sound affected by 1964 earthquake; Apr. p. 13.  
   vessels, fishing, loan applications for; Dec. p. 84.  
   Yukon River \_\_\_\_\_ smolt outmigration chronology study; Aug. p. 22.  
 Aleutians, mortality and gill-net dropout studies by M/V "George B. Kelez", "Yaquina", "Paragon"; July p. 38.  
 Atlantic:  
   "endangered" species, Interior Department classifies \_\_\_\_\_ as; Feb. p. 38.  
   Nova Scotia (Canada), new rearing station planned for; Nov. p. 52.  
   travels of Maine \_\_\_\_\_; Jan. p. IV.  
 Australia, canned \_\_\_\_\_, new import duties on; Mar. p. 68.  
 Baltic Sea conservation agreement between Denmark, Sweden, and West Germany; Nov. p. 44.  
 Branding technique tested on Alaska sockeye \_\_\_\_\_; Oct. p. 51.  
 California, stocking program for silver \_\_\_\_\_ to continue despite flood losses; Apr. p. 13.  
 Canada:  
   chum \_\_\_\_\_ run to Fraser River light in 1965; Dec. p. 53.  
   fishing license changes proposed to reduce fishing pressure; Nov. p. 52.  
   fishway being built at Meziadin Falls in British Columbia; Nov. p. 51.

## SALMON (cont.)

## Canada (cont.):

Fraser River, \_\_\_\_\_ fishing closes early in; Dec. p. 53.

## Canned:

British Columbia pack in 1964; Feb. p. 52.

Italy's trade in Japanese product liberalized; Sept. p. 64.

## Japanese:

exports down in 1964; Feb. p. 69.

export target for fiscal year 1965; July p. 80.

## Great Britain:

firms contract for early delivery to; Aug.

p. 77.

motherhip pack to be transhipped directly to; July p. 74.

ship direct from fishing grounds to; Aug. p. 77.

production and market trends; Jan. p. 76.

sales company sets export prices for 1965; Aug. p. 77.

stocks, prices, and market trends, Sept. 1965; Dec. p. 65.

Seattle, Washington, to have new \$2 million \_\_\_\_\_ warehouse; Feb. p. 38.

stocks of Pacific \_\_\_\_\_; Jan. p. 45, Feb. p. 37, Mar. p. 26, Apr. p. 33, May p. 31, June p. 32,

July p. 45, Aug. p. 52, Sept. p. 41.

U.S.S.R. exports, 1963; Mar. p. 92.

Caviar, \_\_\_\_\_, Alaska industry developing for; Oct. p. 21.

## Chinook:

fall returns to lower Columbia River hatcheries in 1964 excellent; Mar. p. 47.

Oregon, holding facility being built on lower Deschutes River for live \_\_\_\_\_; Oct. p. 49.

## Willamette River:

large-scale planting of \_\_\_\_\_ in; Apr. p. 32.

young \_\_\_\_\_ released in expectation of pollution improvement in; Nov. p. 32.

Chum, Alaska, growth of fry different in 1965; Sept. p. 19.

## Coho (silver):

Great Lakes stocking program, Washington State donates eggs to Michigan for; Apr. p. 21.

Michigan plans introduction in northern areas; Dec. p. 32.

returns of \_\_\_\_\_ to lower Columbia River hatcheries in 1964 excellent; Mar. p. 47.

tagging program in 1965 for grilse at Georgia Strait-Discovery Passage; Nov. p. 51.

transplanting from the Pacific to the Great Lakes of; Mar. p. 34.

## Columbia River:

reopened to fishing below Bonneville Dam; Oct. p. 30.

summer fishing season for \_\_\_\_\_, closure of; Aug. p. 33.

Fish-farming project for \_\_\_\_\_ and trout planned in Scotland; Apr. p. 88.

Fish screen device, new, may help guide migrant fish; May p. 32.

Greenland, Atlantic fishery in offshore waters; Nov. p. 58.

High seas \_\_\_\_\_, experimental trawling for; Feb. p. 1.

International Pacific \_\_\_\_\_ Fisheries Commission, sockeye and pink \_\_\_\_\_ fishery trends in Convention waters, early Sept. 1965; Nov. p. 43.

## SALMON

Ireland, \_\_\_\_\_ valued for over seven centuries in; Dec. p. IV.

## Japan:

Bering Sea motherhip fishing ends; Oct. p. 82.

## catch:

in 1964; May p. 50.

quota for 1965 in western Pacific; June p. 43.

Communist China, \_\_\_\_\_ imports from; Mar. p. 81.

fishermen negotiate new wage contract; Aug. p. 78.

frozen, export target for fiscal year 1965; July p. 80.

motherhip fleet composition and catch quota for 1965; July p. 73.

## North Pacific:

area B fishing season shortened due to good fishing; Aug. p. 77.

Bering Sea, catch trends in; Sept. p. 68.

catch quota allocation for 1964 and 1965; June p. 59.

Japanese feel Soviets may start motherhip-type fishery in; Feb. p. 67.

motherhip fishing ends; Oct. p. 82.

Northwest Pacific area B fishery, Japanese-Soviet negotiations agree on joint inspection of; June p. 43.

pack available for export; Sept. p. 67.

price and pack trends, mid-June 1965; Aug. p. 77.

## price(s):

negotiations; July p. 72.

settlement reached on 1965 ex-vessel; July p. 72.

western Pacific, Japan to ask Soviets for 120,000-ton catch quota for 1965 season in; Apr. p. 72.

King, California, planting program in Russian River; Apr. p. 14.

Landings, U. S., different periods; Feb. p. 41, Oct. p. 56.

## North Pacific:

dropout from gill-nets studied by M/V "George B. Kelez" and "Paragon"; Oct. p. 47.

western, cruise for \_\_\_\_\_ research; Jan. p. 46, July p. 37.

Northwest Pacific Fisheries Treaty, views in Japan on extending; July p. 81.

Norway's season good; Feb. p. 76.

## Oregon:

chinook yearlings released during flood emergency, good downstream passage reported for; July p. 42.

hatchery \_\_\_\_\_ plantings, large-scale, under way; May p. 30.

silver \_\_\_\_\_ transplants may help build runs in Willamette River system; Jan. p. 43.

spring chinook plantings increase in the Willamette River; June p. 31.

Willamette Falls fishway, construction of new, temporarily delayed; Oct. p. 48.

Overcomes obstacles to go home; Aug. p. 59.

Pacific Ocean, northwestern, winter distribution of \_\_\_\_\_ studied by M/V "George B. Kelez"; Apr. p. 28.

## Pink:

## Alaska:

embryos, sea water may accelerate development of \_\_\_\_\_; Jan. p. 18.

growth of \_\_\_\_\_ fry different in 1965; Sept. p. 19.

migration patterns of juvenile \_\_\_\_\_ in 1965; Oct. p. 21.

northern southeastern, low abundance of young \_\_\_\_\_; Dec. p. 26.

## spawning:

beds of \_\_\_\_\_ unstable after earthquake; Jan. p. 18.

## SALMON (cont.)

## Pink (cont.):

## Alaska (cont.):

## spawning (cont.):

sites, \_\_\_\_\_ fail to select best; Mar. p. 19.

studies on migration of \_\_\_\_\_ in 1964; Jan. p. 18.

transplant at Little Port Walter successful; July p. 17.

winter survival of eggs; July p. 17.

Japan Sea catch; Aug. p. 77.

Puget Sound and Fraser River, forecast of 1965 run to; Mar. p. 60.

regulations for 1965 fishery in North Pacific; Apr. p. 45.

Pipes to move \_\_\_\_\_ to spawning grounds studied, use of; May p. 33.

Recipe for \_\_\_\_\_ burgers; July p. 126.

## Red:

## Alaska:

Karluk migrations delayed in 1965; Sept. p. 19.

Karluk run of \_\_\_\_\_ increases in 1964; Jan. p. 18.

Naknek smolt run, record, shows changes in pattern; Sept. p. 19.

survival of fry at Brooks Lake; July p. 17.

work shop held; Aug. p. 22.

canned, Japanese sales reported good; Nov. p. 63.

## Roe:

## Japan:

## imports:

1965, from U. S. and Canada; July p. 80.

from U. S.; Dec. p. 70.

prices in; Feb. p. 69.

Salted, Japanese prices; Feb. p. 69.

## Sockeye:

## Bristol Bay:

distribution pattern studied in; Oct. p. 18.

run nears record in 1965; Oct. p. 18.

carbonates reveal age in study of run to Karluk Lake; Nov. p. 18.

## Fraser River:

fishery trends, July 1965; Oct. p. 62.

forecast of 1965 run to; Mar. p. 60.

North Pacific study of mature \_\_\_\_\_ growth and mortality rates in Bristol Bay; Oct. p. 47.

## Regulations, fishing:

adapted to protect early runs to Fraser River; Sept. p. 51.

1965 fishery in North Pacific; Apr. p. 45.

Space age \_\_\_\_\_ salad served astronaut; July p. 54.

Trawl, pelagic, to sample high-seas \_\_\_\_\_ populations, capability of; Feb. p. 1.

## U.S.S.R.:

catch in 1964; May p. 50.

hybrid \_\_\_\_\_ announced by; Mar. p. 92.

## Northwest Pacific:

area B fishery, Japanese-Soviet negotiators

agree on joint inspection of; June p. 43.

catch, 1962-64; May p. 53.

## Washington:

Cowlitz River migration, rock slide interferes with; Mar. p. 57.

farm, \_\_\_\_\_, operated in cooperation with sport fishing club; June p. 36.

fish farming program evaluated; Oct. p. 58.

net fishing regulations and outlook for \_\_\_\_\_ in Puget Sound in 1965; June p. 36.

Willamette River, pollution threat reduced in; Oct. p. 51.

World's Fair, \_\_\_\_\_ sandwich big hit at; Mar. p. 47.

## SALMON FISHERIES COMMISSION, INTERNATIONAL PACIFIC

Fishing regulations adapted to protect early runs of sockeye salmon to Fraser River; Sept. p. 51.

## SALT

Chub, fresh and smoked, rapid field method for determining the \_\_\_\_\_ concentration in; Dec. p. 18.

## SALTED FISH

Canada, distribution to countries suffering food shortage; Oct. p. 68.

## SAN FRANCISCO BAY

California, investigations continued by M/V "Nautilus"; Apr. p. 18, Oct. p. 24.

## SANITARY REGULATIONS

Canned fish, \_\_\_\_\_ drafted at OECD meeting of experts for; Jan. p. 59.

## SANITATION

Codex Alimentarius Commission, Food Hygiene Committee holds second meeting; Sept. p. 55.

Massachusetts, more sanitary methods in handling fish; May p. 24.

Public Health Service, National Shellfish

Meeting, health protection of U. S. shellfish consumers emphasized at; Feb. p. 39.

## SARDINES

## Canned:

Congo industry outlook; Feb. p. 82.

Costa Rica imports restricted by health authority; June p. 51.

Ghana industry outlook; Feb. p. 82.

## Japan:

export target for fiscal year 1965; July p. 80.

plans to import South African \_\_\_\_\_; Aug. p. 80.

Morocco industry outlook; Feb. p. 81.

Senegal industry outlook; Feb. p. 82.

South Africa Republic industry outlook; Feb. p. 81.

United Kingdom supply situation; Jan. p. 95.

West Africa industry outlook; Feb. p. 81.

Chilean canning industry; May p. 63.

France, price and landing trends, 1964; Nov. p. 57.

Ghana's fishery research on biology of \_\_\_\_\_; Apr. p. 69.

Gulf of Maine, barnacle larvae and relation to \_\_\_\_\_ feed studied; July p. 36.

Ivory Coast, canned production plans, 1965/66 season; July p. 68.

## Maine:

canned stocks; Feb. p. 27, Apr. p. 23, July p. 27,

Aug. p. 43, Oct. p. 36.

canning season, year-round, approved; June p. 26.

Philippines, \_\_\_\_\_ industry hopes to sell to; Feb. p. 28.

Mediterranean, General Fisheries Council, tagging program discussed at 8th annual session; July p. 56, Aug. p. 63.

Portugal's 1964 fishing season reported one of best; Apr. p. 82.

Tagging seminar held by FAO; Jan. p. 56.

U.S.S.R., Pacific, eastern expedition sent to explore in; Nov. p. 72.

Venezuela fishery trends and exports, 1963; Apr. p. 89.



## SAUDI ARABIA

Shrimp, Anglo-\_\_\_\_, new fishing venture in Middle East; Nov. p. 74.

## SAURY

Canned:  
Burma invites bids on \_\_\_\_; Apr. p. 62.  
Japan:  
exports for 1965; Oct. p. 83.  
export target for fiscal year 1965; July p. 80.  
Japan:  
catch of \_\_\_\_ poor in 1964; Feb. p. 64.  
fishery trends; Mar. p. 81, Dec. p. 69.  
seasonal fishery disappointing; Mar. p. 81.  
Soviets fishing off northeastern coast of; Feb. p. 71.

## SCALLOP

Australia:  
exports of \_\_\_\_ continue to grow; Apr. p. 58.  
fishery trends, early 1965; Aug. p. 67.  
shells exported to Japan; Mar. p. 68.  
Calico:  
Florida east coast:  
camera use studied to fish for \_\_\_\_ and royal-red shrimp; Mar. p. 49.  
explorations by M/V "Oregon"; Nov. p. 34.  
processing equipment for \_\_\_\_ tested aboard M/V "Oregon" at sea; Apr. p. 36.  
Frozen, Scotland exports to European continent; Oct. p. 98.  
New Zealand industry; Sept. p. 72.  
Panama, exploratory fishing in; Apr. p. 1.  
Sea:  
Australian \_\_\_\_ fishery developments in 1963/64 season; Apr. p. 60.  
New England landings in 1964 and forecast for 1965; Feb. p. 30.  
North Atlantic population survey on Georges Bank continued by M/V "Albatross IV"; July p. 36.  
Panama hopes to expand fishery for \_\_\_\_; Oct. p. 94.

## SCANTLING SCHEDULE(S)

International Meeting on Structural Research on Wooden Fishing Vessels; Feb. p. 48.

## SCHOOLS OF FISH

Push from behind moves fish forward; June p. 11.

## SCUBA DIVING

Alaska, king crab abundance observed by \_\_\_\_; Apr. p. 13.

## SEABED DRIFTER (see DRIFTER)

## "SEA-GRANT" COLLEGES

University of Rhode Island Conference, October 28-29, 1965, to discuss proposed \_\_\_\_; Sept. p. 41.

## SEA LAMPREY

Great Lakes:  
Canadian lamprey control experiment group headquarters relocates; Sept. p. 58.  
chemical treatment of \_\_\_\_ producing streams; June p. 21.  
Fishery Commission:  
commended for results of \_\_\_\_ eradication program; Mar. p. 47.  
extension of \_\_\_\_ controls approved by; Feb. p. 50.

## SEAL(S)

Auction of \_\_\_\_ skins from Alaska and Greenland held in Denmark; Mar. p. 73.  
Canada:  
Gulf of St. Lawrence operations, 1965; May p. 61.  
harp \_\_\_\_ herds, declining, protected by St. Lawrence catch quota in 1965; May p. 61.  
Danish auction includes \_\_\_\_ skins from Alaska, Canada, and Greenland in Feb. 1965; June p. 52.  
Greenland \_\_\_\_ skins auctioned in Denmark; Dec. p. 53.  
Harp and Hood:  
Federal Republic of Germany adheres to protocol concerning \_\_\_\_; Sept. p. 52.  
International Convention for the Northwest Atlantic Fisheries, Portugal ratifies protocol concerning; Feb. p. 52.  
Uruguay fur \_\_\_\_ industry; Apr. p. 84.

## SEAMOUNT

South Atlantic Ocean \_\_\_\_ holds key to new studies; Feb. p. 13.

## SEA OTTER

Alaska, populations of \_\_\_\_ may be transplanted to more accessible site; Jan. p. 97.

## SEAWEED

Canada, processing plant to be built on Prince Edward Island; Oct. p. 68.  
Florida, study of \_\_\_\_ resource on the Continental Shelf; Mar. p. 32.  
New Jersey uses artificial \_\_\_\_ in coastal erosion-prevention tests; Nov. p. 27.  
United Kingdom uses artificial \_\_\_\_ in coastal erosion-prevention tests; Nov. p. 27.  
U.S.S.R. to use \_\_\_\_ for animal feed; Dec. p. 82.

## SEISMIC SEA WAVES

Pacific \_\_\_\_ Warning System, U. S. Coast and Geodetic Survey operates; Apr. p. 31.

## SENEGAL

Canned fish industry; Sept. p. 74.  
Fish meal and oil potential and general fisheries situation; Feb. p. 83.  
Landings, estimated, by type of vessel; Sept. p. 75.  
Sardines:  
canned, industry outlook; Feb. p. 82.  
cannery plans to pack; Sept. p. 74.  
Tuna:  
canned pack, 1964; Sept. p. 74.  
industry will receive aid from U.S.S.R.; Jan. p. 86.  
vessels, nine new; Nov. p. 70.

## SEROLOGY

Central Pacific, tuna blood samples studied; June p. 18.  
Tuna blood group studies, advances made in; Apr. p. 18.

## SHAD

Columbia River commercial fishery for \_\_\_\_ allowed to continue in spite of salmon closures; Aug. p. 33.  
Susquehanna \_\_\_\_ restoration study encouraging; May p. 34.

## SHARK (also see DOGFISH)

Export opportunity for \_\_\_\_ fins to Hong Kong; Apr. p. 36.

**SHARK (also see DOGFISH) (cont.)**

- Mexican Pacific \_\_\_\_\_ fishery expands; Apr. p. 35.
- Repellents of \_\_\_\_\_ tested; June p. 38.
- South Africa:
  - fishery expands; Sept. p. 75.
  - fishing tests for \_\_\_\_\_ off Natal; June p. 78.
- Tagging project in eastern Pacific related to \_\_\_\_\_ control work; Apr. p. 34.
- Tuna purse-seine nets, \_\_\_\_\_ damage to; Apr. p. 34.

**SHELF LIFE**

- Fresh fish, irradiation preservation will extend \_\_\_\_\_; Oct. p. 1.

**SHELLFISH**

- Clams' antimicrobial substances possess tumor-preventive activity; Nov. p. 99.
- Crab, blue, cleaner-debaker machine, semiautomatic, demonstrated; Aug. p. 25.
- Maryland sets standards for out-of-state \_\_\_\_\_ arrivals; Apr. p. 25.
- Mortality of \_\_\_\_\_ conference held; Apr. p. 36.
- National \_\_\_\_\_ Sanitation Meeting, health protection of U. S. consumers emphasized at; Feb. p. 39.
- Seed culture programs conducted by Atlantic coastal states; May p. 35.

**SHELLS**

- Scallop, Australia exports \_\_\_\_\_ to Japan; Mar. p. 68.

**SHRIMP**

- Alaska:
  - cannery for \_\_\_\_\_, new floating; Aug. p. 22.
  - life history studies; Nov. p. 17.
  - processing operations at Kodiak increase; May p. 11.
  - production, 1964; June p. 16.
  - southeastern resources to be studied by M/V "Commando"; Sept. p. 19.
- Australia:
  - development of commercial fishery promising; Sept. p. 56.
  - fishery continues to expand; Apr. p. 57.
  - fishery trends, early 1965; Aug. p. 67.
  - fishing grounds, new, for \_\_\_\_\_ off Queensland promising; Apr. p. 59.
  - imports soar to meet home demand; Nov. p. 47.
  - New Guinea survey shows commercial potential; Nov. p. 46.
  - North Queensland \_\_\_\_\_ beds productive; Jan. p. 63.
  - resources surveyed in northern waters; Jan. p. 63.
  - western area:
    - fishing trends in; Apr. p. 61.
    - landings for 1965 down from previous season; Nov. p. 46.
- Barbados fishery trends, 1964; July p. 60.
- Behavior and ecological parasitology; Dec. p. 35.
- Bering Sea, Japanese fishery trends; Sept. p. 68.
- Breaded:
  - frozen:
    - definitions and standards of identity for; May p. 91.
    - grades, proposed revised U. S. standards for; May p. 95.
    - standards of identity, interim amendment to; Aug. p. 100.
    - standards, proposed revised, Government-industry meeting on; June p. 82.

**SHRIMP**

- Breaded:
  - production:
    - quarterly data; Jan. p. 47, May p. 36, Aug. p. 54, Sept. p. 42, Oct. p. 51.
    - 1964 data; May p. 36.
- Breakfast, \_\_\_\_\_ for; Jan. outside back cover.
- British Guiana fishery trends; Nov. p. 49.
- Brown:
  - Florida's east coast, stocks studied off; June p. 33.
  - juvenile distribution in Gulf of Mexico; Mar. p. 37, June p. 24, Dec. p. 35.
  - reared successfully from eggs by U. S. Bureau of Commercial Fisheries scientist; June p. 81.
- California:
  - commercial fishing area closed for season; Oct. p. 24.
  - fishery on north coast closed with attainment of quota; Oct. p. 48.
  - survey of resources in coastal waters continued; Mar. p. 23, Apr. p. 17, Aug. p. 26, Oct. p. 22.
- Canned:
  - imports from Japan, July-August 1965; Dec. p. 66.
  - Japanese exports; Jan. p. 76, Apr. p. 73, May p. 75, July p. 75, Aug. p. 80, Oct. p. 83, Dec. p. 66.
  - U. S. pack in 1964; Aug. p. 54.
- Consumption in U. S. at record high level; Feb. p. 39.
- Cultivation:
  - in artificial ponds; Dec. p. 34.
  - under seminatural conditions; June p. 23.
- Dried \_\_\_\_\_, India's exports of, Jan.-May 1964; Jan. p. 73.
- Ecuadorian landings and exports, 1964; Aug. p. 71.
- El Salvador:
  - export tax being studied; Aug. p. 71.
  - industry trends, 1964; June p. 53.
- Florida east coast:
  - brown \_\_\_\_\_, large, located by M/V "Oregon"; Apr. p. 37.
  - distribution studies; June p. 33.
  - explorations for brown and pink \_\_\_\_\_ by M/V "Oregon"; Nov. p. 34.
- Frozen:
  - futures trading for \_\_\_\_\_, revised rules and specifications by Chicago Mercantile Exchange on; May p. 36.
  - Guatemalan exports, 1964; Aug. p. 72.
  - India's exports of \_\_\_\_\_, Jan.-May 1964; Jan. p. 73.
  - Japanese export target for fiscal year 1965; July p. 80.
  - Viet-Nam, Republic of, exports, 1964; Aug. p. 98.
- Frozen raw breaded:
  - standards of identity for \_\_\_\_\_, tentative order establishing definitions and \_\_\_\_\_; Feb. p. 85.
  - standards, revised, for grades of \_\_\_\_\_; Oct. p. 101.
- Growth and survival studies; Dec. p. 36.
- Gulf of Mexico:
  - bait catches from Galveston Bay; Mar. p. 36, June p. 24, Dec. p. 35.
  - bait (juvenile) fisheries and postlarval abundance, surveys of; Mar. p. 36, June p. 23, Dec. p. 35.
  - biology program; Mar. p. 35, June p. 22, Dec. p. 34.
  - brown and white migrations, growth, and mortality; Mar. p. 37, June p. 24, Dec. p. 35.
  - catch by fishing areas, 1964; July p. 46.
  - commercial catch sampling; Mar. p. 36, Dec. p. 35.
  - distribution studies; Jan. p. 32, Feb. p. 25, Mar. p. 35, Apr. p. 21, May p. 22, June p. 25, July p. 25, Aug. p. 40, Sept. p. 29, Nov. p. 22, Dec. p. 33.

## SHRIMP (cont.)

## Gulf of Mexico (cont.):

gear studies continued; Jan. p. 31, Feb. p. 25, May p. 21, July p. 24, Dec. p. 33.  
larvae studies; Mar. p. 35, June p. 22, Dec. p. 34.  
Hong Kong, industry and foreign trade, 1963-64; Nov. p. 58.

## India:

Japanese fishing firm plans joint company in; Aug. p. 73.  
trade representatives propose \_\_\_\_\_ trade with Japan; June p. 57.

## Japan:

## Bering Sea:

factoryship operation; Dec. p. 69.  
1964 \_\_\_\_\_ operation concluded in Dec. 1964; Feb. p. 68.  
imports, Jan.-Aug. 1964; Feb. p. 70.  
Indonesian-Japanese \_\_\_\_\_ fishing venture; Feb. p. 61.

Kenya cannery planned in coastal area; Dec. p. 72.

## Landings:

Gulf and South Atlantic States, 1964; July p. 46.  
U. S., different periods; Feb. p. 42, Oct. p. 57.  
Lebanon, Persian Gulf, Anglo-Arabian fishing venture in; Mar. p. 87.

## Mexico:

exports to Europe and Asia granted tax advantage; Nov. p. 68.  
west coast:

catch poor during 1964/65 season; Apr. p. 77.  
fishing season, 1965/66; Dec. p. 73.  
vessel tie-up, agreement reached in; Dec. p. 73.

Mozambique establishing freezing and canning plant; June p. 65.

Nicaraguan fishery trends; June p. 67.

## Nigeria:

Gulf of Guinea, eastern, potential of the; Nov. p. 9.  
survey, extended, to be made of \_\_\_\_\_ resources; Apr. p. 79.

trawlers, two, ordered from Japan; Apr. p. 79.  
U. S. firms plan fishing venture in; Apr. p. 78.

Oregon, fishery trends, summer 1965; Oct. p. 48.

Pakistan, industry potential and investment possibilities; Oct. p. 91.

Panama's fishery trends in 1964; Oct. p. 93.

Persian Gulf, British-Arabian fishing venture to be managed by U. S. experts; Dec. p. 78.

## Pink:

## Alaska:

growth rate of \_\_\_\_\_ in Auke Bay; Aug. p. 23.  
southeastern, survey for \_\_\_\_\_; Feb. p. 14.  
vertical migrations of \_\_\_\_\_; Nov. p. 17, Dec. p. 26.

Pond culture in South Carolina; Mar. p. 52, May p. 39, Sept. p. 45.

## Recipes:

Christmas tree of \_\_\_\_\_; Dec. p. 107.  
mushroom appetizers, \_\_\_\_\_-stuffed; Oct. p. 113.  
sour cream, \_\_\_\_\_ in; Mar. p. 132.  
vegetable-\_\_\_\_\_ platter; Nov. p. 77.

Research, fishery, U. S.-Mexican exchange of data; Dec. p. 49.

Royal-red, Florida east coast, camera use studied in fishing for \_\_\_\_\_ and calico scallops; Mar. p. 49.

South Africa, explorations off coast; Mar. p. 88.

South Atlantic, electric trawl studies for \_\_\_\_\_ by M/V "Oregon"; May p. 37.

## South Carolina:

pond culture studies in; Mar. p. 52, May p. 39.

## SHRIMP

## South Carolina:

studies; Mar. p. 52, May p. 38, Sept. p. 45.

Southeast Alaska, survey of resource by M/V "Com-mando"; Dec. p. 24.

Spot, Alaska explorations for \_\_\_\_\_ and king crab by M/V "John R. Manning"; Dec. p. 25.

Sweden's import and export trends; Feb. p. 80.

Tonga Islands, South Pacific lagoon, large \_\_\_\_\_ caught in; July p. 94.

Trawlers, U. S.-built vessels, three, operate off South America; May p. 45.

## Trawling:

electrical, studies in Gulf continued; Sept. p. 28.  
Netherlands, new type net designed for \_\_\_\_\_; Oct. p. 89.

United Kingdom, Persian Gulf, Anglo-Arabian fishing venture in; Mar. p. 87, Nov. p. 74.

## United States:

production of manufactured \_\_\_\_\_ products, 1964; Aug. p. 53.  
supply and disposition, 1962-64; June p. 32.

## Venezuela:

eastern, some observations on the distribution of penaeid \_\_\_\_\_ in; July p. 12.  
fisheries investment opportunity; Oct. p. 100.  
fishery trends and exports, 1963; Apr. p. 90.  
Florida firm, industry opposes entry of; Nov. p. 76.  
industry expanding; Oct. p. 99.  
transport methods; Oct. p. 99.  
Viet-Nam exports; Jan. p. 96, July p. 96.

## SHRIMP ASSOCIATION OF THE AMERICAS

Convention held in Miami Beach in June 1965; Aug. p. 54.

## SIERRA LEONE

Territorial waters extended to 12 miles; May p. 86.

## SILICON

New method of extracting radioactive \_\_\_\_\_ from sea water; Mar. p. 46.

## SINGAPORE

Fishery landings and imports; Aug. p. 88.

## SIPHONOPHORE FISH

Miami scientists discover new family of fish; May p. 118.

## SMALL BUSINESS ADMINISTRATION

## Alaska:

loan approved for crab processing firm in; May p. 99.  
loan approved for new fish processing plant in Unalakleet; Sept. p. 18.

## SMELT

Lake Michigan, trawling, experimental, continued by M/V "Kaho"; Sept. p. 27.

## SMOKING

Chub, rapid field method for determining the salt concentration in; Dec. p. 18.

## SMOLT

Salmon, Alaska, Yukon River \_\_\_\_\_ outmigration chronology study; Aug. p. 22.

## SOCIALIST BLOC

Vessel, fishing, second conference held by \_\_\_\_\_ countries; May p. 57.

## SOFT-SHELL CLAMS (see CLAMS)

## SOMALI REPUBLIC

AID approves loan for fisheries venture; Jan. p. 86.  
 Faroese vessel for tuna fishing in \_\_\_\_\_ not completed, U. S. charter of; Feb. p. 59.  
 United States-\_\_\_\_\_ joint fisheries venture extended risk and equity guaranty by AID; May p. 86.

## SONAR

Tags with \_\_\_\_\_ used to study fish migrations; Jan. p. 54.  
 Tuna, Pacific, specially designed \_\_\_\_\_ system for locating below surface; Aug. p. 31.

## SOUND WAVE SEARCHLIGHT

British develop underwater \_\_\_\_\_ for fisheries use; Jan. p. 96.

## SOUNDS

Fish, \_\_\_\_\_ or noises made by; June p. 90.

## SOUTH AFRICA

## Anchovies:

experimental fishing continued off South-West Africa; June p. 76.  
 fishery, August 1964; Jan. p. 89.  
 fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 87, May p. 87, June p. 76, Aug. p. 93, Nov. p. 70, Dec. p. 79.  
 fishing regulations issued; Aug. p. 95.  
 large-scale test of new fishery planned; Jan. p. 89.  
 Angola fishing industry attracts investments from \_\_\_\_\_; Dec. p. 50.

## Canned fish:

pack; June p. 77, Sept. p. 75.  
 Walvis Bay products, producers report strong demand for; Jan. p. 89.

## Fisheries:

catch, record, in 1964; Aug. p. 94.  
 research needed to clarify shoal fisheries potential; Aug. p. 94.

## Fish meal:

capacity on the Cape, new licenses expand; Aug. p. 95.  
 industry outlook and general fisheries situation; Feb. p. 84.  
 market trends, world, cause concern; Aug. p. 93.  
 production; June p. 77, Aug. p. 93, Sept. p. 75.  
 Walvis Bay products, producers report strong demand for; Jan. p. 89.

## Fish oil:

industry outlook and general fisheries situation; Feb. p. 84.  
 production; June p. 77, Aug. p. 93, Sept. p. 75, Nov. p. 71.  
 Walvis Bay products, producers report strong demand for; Jan. p. 90.

Fish protein concentrate developed; July p. 91.

Foreign fishing operations off west coast; Dec. p. 80.  
 Harbors being improved to help fisheries expand; Mar. p. 89.

Lampara-seine nets in Cape shoal fishery may be replaced by purse-seine nets; Jan. p. 90.

## Lobster, spiny:

canned pack, 1964; Sept. p. 75.

## SOUTH AFRICA

## Lobster, spiny:

frozen tails production, 1964; Sept. p. 75.  
 new grounds in Indian Ocean fished by Soviets and \_\_\_\_\_; Oct. p. 95.

Maasbanker, canned pack, 1963-64; Sept. p. 75.

Mackerel, canned pack, 1963-64; Sept. p. 75.

Marine oil production, 1963-64; Sept. p. 75.

Mozambique fisheries enterprise being developed by Portugal-\_\_\_\_\_ group; June p. 65.

Pelagic shoal fish catch; Jan. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 70, Dec. p. 79.

## Pilchard:

canned pack, 1963-64; Sept. p. 75.

frozen, production, 1964; Sept. p. 75.

Pilchard-maasbanker fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 87, May p. 87, June p. 76, Aug. p. 93, Nov. p. 71, Dec. p. 79.

Processed fishery products, production of leading, 1963-64; Sept. p. 75.

## Purse-seining:

nets may revolutionize Cape shoal fishery; Jan. p. 90.  
 shoal fishing vessel "Treffer I"; Jan. p. 88.

Salmon imports from Canada increasing; Nov. p. 52.

## Sardines, canned:

industry outlook; Feb. p. 81.

Japan plans to import from \_\_\_\_\_; Aug. p. 80.

Seamount in South Atlantic Ocean holds key to new studies; Feb. p. 13.

## Shark:

fishery expands; Sept. p. 75.

fishing tests off Natal; June p. 78.

Shrimp explorations off \_\_\_\_\_ coast; Mar. p. 88.

Soviet trawling activities off \_\_\_\_\_; Mar. p. 93, June p. 79.

Spanish trawling activities off \_\_\_\_\_; Dec. p. 81.

Sperm oil production, 1963-64; Sept. p. 75.

## Trawling:

company, new, backed by Spanish-South African interests; Jan. p. 90.

off \_\_\_\_\_ attracts more Spanish vessels; Jan. p. 91.

stern-trawlers "Pionier I" and "Pionier II," new; Jan. p. 87.

## Tuna vessels:

five ordered by fishing firm in \_\_\_\_\_; Jan. p. 87.  
 "Verkenner I" and "Verkenner II," new; Jan. p. 87.

U. S. imports of fishery products from \_\_\_\_\_, 1963; June p. 35.

## Vessels:

fiberglass construction for shoal fishery proves popular; Nov. p. 71.

new, will help diversify fisheries; Jan. p. 87.

stern trawlers, new, delivered from foreign shipyards; June p. 78.

Walvis Bay fishery products, producers report strong demand for; Jan. p. 89.

Whale oil production, 1963-64; Sept. p. 75.

## SOUTH AMERICA

Japanese firms, two, to conduct test fishing off \_\_\_\_\_; Nov. p. 64.

## SOUTH AMERICAN COMMON MARKET (see LATIN AMERICAN FREE TRADE ASSOCIATION)

## SOUTH ATLANTIC

Florida, exploratory fishing and fishery investigations by "Hernan Cortez"; Mar. p. 32.

Tuna, albacore, Japanese long-line vessel caught mostly; Sept. p. 65.

## SOUTH ATLANTIC FISHERIES EXPLORATIONS AND GEAR DEVELOPMENT

- Bahama, southern, fishery resource potentials explored; Sept. p. 43.  
 Calico scallop processing equipment tested aboard vessel at sea; Apr. p. 36.  
 Electric shrimp trawl studies; May p. 37.  
 Florida east coast:  
   royal-red shrimp and calico scallop, use of camera studied to fish for; Mar. p. 49.  
   scallop, calico, and shrimp explorations; Nov. p. 34.  
   shrimp distribution studies by M/V "Oregon"; June p. 33.  
 Long-lining for swordfish:  
   Bahama area tested; Oct. p. 52.  
   south Atlantic, tested in; Jan. p. 47.  
 Swordfish and tuna:  
   availability to commercial fishing investigated; July p. 47.  
   seasonal availability investigated; Mar. p. 50.  
 Vessel, fishery research, new; Sept. p. 44.

## SOUTH ATLANTIC STATES

- Fishery landings, 1963; Feb. p. 40.

## SOUTH CAROLINA

- Fisheries biological research progress; Mar. p. 51, May p. 38, Sept. p. 44.  
 Fish kill; Mar. p. 53, Sept. p. 46.  
 Landings and trends, 1964; Sept. p. 46.  
 Oyster studies, Oct.-Dec. 1964; Mar. p. 51, Sept. p. 44.  
 Pond cultivation studies; Mar. p. 52, May p. 39, Sept. p. 45.  
 Shrimp studies; Mar. p. 52, May p. 38, Sept. p. 45.  
 Trawling, experimental, for fish off \_\_\_\_; Mar. p. 52, May p. 38, Sept. p. 45.

## SOUTHEASTERN FISHERIES ASSOCIATION

- Convention held in Miami Beach in June 1965; Aug. p. 54.

## SOUTHERN NEW ENGLAND MARINE SCIENCES ASSOCIATION

- Organization and purpose announced; July p. 38.

## SOUTH PACIFIC

- Japan:  
   trawlers, more large, to be licensed to fish in; Oct. p. 86.  
   tuna mothership:  
     catch in \_\_\_\_; Sept. p. 65.  
     ends operations in early Sept.; Nov. p. 61.  
     fishery trends in \_\_\_\_; Mar. p. 78.  
     fleet catch in \_\_\_\_; Aug. p. 76.  
     fleet from \_\_\_\_ lands; Feb. p. 64.  
     to be sent to \_\_\_\_; May p. 73.  
 Shrimp, Tonga Islands, large species caught off; July p. 94.

## SOUTH PACIFIC ISLANDS (see PACIFIC ISLANDS)

## SOUTH-WEST AFRICA

- Anchovy:  
   experimental fishing continued; June p. 76.  
   fishery, August 1964; Jan. p. 89.  
   fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 88, May p. 87, June p. 76, Aug. p. 93, Nov. p. 71, Dec. p. 79.

## SOUTH-WEST AFRICA

- Fisheries venture, new, involves spiny lobster and white fish; Nov. p. 71.  
 Lobster, spiny, grounds, new, explored off \_\_\_\_ coast; Mar. p. 90.  
 Pelagic shoal fish catch; Jan. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 71, Dec. p. 79.  
 Pilchard fishery trends; Jan. p. 88, Feb. p. 79, Mar. p. 88, May p. 87, June p. 77, Aug. p. 93, Nov. p. 71, Dec. p. 79.  
 Trawlers, freezer-stern, new fishing company plans purchase of; Mar. p. 90.  
 White fish and spiny lobster, new fisheries venture involves; Nov. p. 71.

## SOVIET BLOC

- Cooperative fishery agreement, Bulgaria included in; Feb. p. 78.  
 Trade with \_\_\_\_, U. S. advisory committee expanded on; Apr. p. 94.

## SPACE AGE

- Salmon salad in the \_\_\_\_; Aug. p. 54.

## SPAIN

- Canned fish industry, fourth quarter 1964; Mar. p. 91.  
Commercial Fisheries Review, reader in \_\_\_\_ comments on; Aug. p. 18.  
 Cuba may buy tuna vessels from \_\_\_\_; July p. 64.  
 Fish meal and oil production and foreign trade; Oct. p. 96.  
 Hake, frozen, wins consumer acceptance; Sept. p. 75.  
 Irish Government answers protests by local fishermen over Spanish landings at Irish port; Mar. p. 75.  
 Landings, fishery, in 1963; Mar. p. 63.  
 South African trawl fishery trends, Sept. 1965; Dec. p. 81.  
 Trawling:  
   company, new, in South Africa backed by \_\_\_\_ - South African interests; Jan. p. 90.  
   off South Africa; Jan. p. 91, Dec. p. 80.  
 Vessels, fishing fleet expands with the addition of new trawlers in 1964; Oct. p. 97.  
 Vigo fishery trends; Mar. p. 90, July p. 91, Oct. p. 96.

## SPAWN

- Salmon, pink, Alaska winter survival of \_\_\_\_; July p. 17.

## SPECIFICATIONS

- Chilled and frozen fish, DSSC distributes revisions to Federal \_\_\_\_ for; Feb. p. 41.  
 Oysters, fresh and frozen shucked raw, Federal \_\_\_\_ proposed for; Nov. p. 20.

## SPERM OIL

- Japanese Antarctic production, 1964/65 season; Aug. p. 85.  
 Norway's supply and disposition of \_\_\_\_, 1964, with comparisons; June p. 70.  
 U.S.S.R., Antarctic production, 1964/65; Aug. p. 95.

## SPINY LOBSTER (see LOBSTER)

## SPONGE

- Greece, landings, 1964; June p. 55.

- SPORT FISHERIES AND WILDLIFE, BUREAU OF (also see COMMERCIAL FISHERIES, BUREAU OF)  
 Deputy Director, new, appointed for \_\_\_\_; Mar. p. 96.



**SPORT FISHERIES AND WILDLIFE, BUREAU OF** (also see **COMMERCIAL FISHERIES, BUREAU OF**) (cont.)  
 Director, new, appointed for \_\_\_\_\_; Mar. p. 96.  
 Federal aid funds for restoration projects apportioned for FY 1966; Aug. p. 34.  
 Fluke, eggs, fertilized, incubated at Sandy Hook Marine laboratory; Mar. p. 33.  
 Game fish research laboratory for Florida; Dec. p. 31.  
 License sales for sport fishing increased in 1964; June p. 33.  
 Research vessel "Dolphin," new, to study coastal game fish resources; Jan. p. 48.  
**Salmon:**  
 Atlantic, classified as "endangered" species by \_\_\_\_\_; Feb. p. 38.  
 returns of fall chinook and silver to lower Columbia River hatcheries in 1964 excellent; Mar. p. 47.

#### SPORT FISHING (also see **GAME FISH**)

California, aerial survey of marine \_\_\_\_\_ off southern coast; Aug. p. 27, Oct. p. 25.  
 Economic aspects of \_\_\_\_\_, symposium on; Mar. p. 72.  
 Great Lakes, restocking work with lake trout and salmon; Mar. p. 33.  
 License sales for \_\_\_\_\_ increased in 1964; June p. 33.

#### SPOTTING (see **FISH SPOTTING**)

#### STANDARDS

Canned fish, sanitary regulations drafted at OECD meeting of experts for; Jan. p. 59.  
 Codex Alimentarius Commission, Food Hygiene Committee holds second meeting; Sept. p. 55.  
 Fish portions, frozen raw breaded, U. S. \_\_\_\_\_ for grades modified by minor technical amendment; Aug. p. 101.  
 Organization for Economic Cooperation and Development, quality \_\_\_\_\_ for certain fishery products, meeting of experts studying; Jan. p. 59.  
 Shellfish arrivals, Maryland sets \_\_\_\_\_ for out-of-State; Apr. p. 25.  
 Shrimp, frozen raw breaded:  
 definitions and \_\_\_\_\_ of identity established; May p. 91.  
 definitions and \_\_\_\_\_ of identity, tentative order establishing; Feb. p. 85.  
 grades, proposed revised U. S. \_\_\_\_\_ for; May p. 95.  
 interim amendment to U. S. \_\_\_\_\_ for grades of; Aug. p. 100.  
 proposed revised \_\_\_\_\_ for grades, Government-industry meeting on; June p. 82.  
 revised U. S. \_\_\_\_\_ for grades; Oct. p. 101.

#### STARCH GEL

Species, fish, identification by \_\_\_\_\_ electrophoretic method recommended for adoption; Jan. p. 48.

#### STATES' LEGISLATION

Actions affecting fisheries; Apr. p. 37, May p. 39, July p. 52, Aug. p. 55, Sept. p. 47.

#### STEELHEAD

Oregon stocking program; July p. 43.

#### STRIPED BASS

Great Lakes, Michigan plans introduction in southern waters; Dec. p. 32.

#### STRIPED BASS

Maryland spawning and migration study, \_\_\_\_\_ tagged in; June p. 26.

#### SUBMARINE

Central Pacific, underwater research with use of \_\_\_\_\_ brings new discoveries; Dec. p. 29.  
 Hawaii, studies off; Oct. p. 28.  
 Oceanographic research, trial dives of \_\_\_\_\_ by Woods Hole Oceanographic Institution; Jan. p. 42.  
 Research \_\_\_\_\_, nuclear-powered, Interior Department studies plans for; Aug. p. 50.  
 Rhode Island, \_\_\_\_\_ used to explore sea floor off; Aug. p. 50.

#### SUBSIDIES

Canada, vessels, fishing, \_\_\_\_\_ extended; Apr. p. 63.  
 Fishing Fleet Improvement Act of 1964, hearings on construction differential \_\_\_\_\_ applications under; Feb. p. 91, Mar. p. 98, Apr. p. 92, May p. 98, Aug. p. 100, Oct. p. 106, Nov. p. 78.  
 Fishing vessel construction \_\_\_\_\_ regulations adopted; Jan. p. 99.  
 German Federal Republic coastal States ask increased \_\_\_\_\_ for fishing industry; Sept. p. 60.  
 Norway, fisheries agreement, government-industry, aims to eliminate price \_\_\_\_\_ by 1968; June p. 71.  
 United Kingdom:  
 fishing vessel improvement, Government \_\_\_\_\_ for; July p. 95.  
 white fish and herring fishermen, reduced \_\_\_\_\_ rates proposed for; Oct. p. 99.  
 Vessels:  
 construction application, first, under new U. S. Fishing Fleet Improvement Act of 1964; Feb. p. 43.  
 fishing, construction differential \_\_\_\_\_, U. S.; Aug. p. 57, Nov. p. 38.

#### SUSQUEHANNA RIVER

Shad restoration study encouraging; May p. 34.

#### SWEDEN

Fishing limits, Nordic fishing organizations meet to discuss; Dec. p. 48.  
 Fish meal:  
 imports, 1963-64; July p. 92.  
 industry trends, 1963/64 and 1964/65; July p. 92.  
 Frozen packaged fish market trends; May p. 87.  
 International Fishery Trade Fair to be held at Göteborg; May p. 52.  
 Landings, fishery, in 1963; Mar. p. 63.  
 Marine oil:  
 foreign trade, 1963-64; July p. 92.  
 import taxes, 1964-65; July p. 93.  
 industry trends, 1963/64 and 1964/65; July p. 92.  
 Salmon, Baltic Sea conservation agreement between Denmark, West Germany, and \_\_\_\_\_; Nov. p. 44.  
 Shrimp:  
 export and import trends; Feb. p. 80.  
 industry trends; Feb. p. 80.  
 Vessel designing training course given jointly with Food and Agriculture Organization; Oct. p. 62.

#### SWORDFISH

Canada, Caribbean and South Atlantic exploratory cruise to study \_\_\_\_\_ and tuna; July p. 61.  
 Japanese exports:  
 approvals to U. S. and Canada, April-May 1965; Oct. p. 83.

## SWORDFISH (cont.)

## Japanese exports (cont.):

## frozen:

fresh and, 1963-64; Nov. p. 66.

quotas; May p. 70.

target for FY 1965; July p. 80.

target to U. S. for 1965/66; May p. 69.

validations to U. S. and Canada, April-May 1965; Oct. p. 83.

Long-line gear hook damage by electrolysis, aluminum crimping sleeve prevents; Aug. p. 19.

Long-lining for \_\_\_\_\_ in Bahama area tested by M/V "Oregon"; Oct. p. 52.

North Atlantic, western, distribution studies continued by M/V "Delaware"; Feb. p. 31, July p. 32, Nov. p. 27.

## South Atlantic:

availability to commercial fishing investigated by M/V "Oregon"; Mar. p. 50, July p. 47.

long-lining for \_\_\_\_\_ tested by M/V "Oregon"; Jan. p. 47.

Vessels "Chilmark Sword" and "Chilmark Voyager," new \_\_\_\_\_ long-liners; Jan. p. 49.

## TAGGING

Branding technique tested on Alaska sockeye salmon; Oct. p. 51.

California, halibut \_\_\_\_\_ project by M/V "Alaska"; Oct. p. 22.

Crabs, Dungeness, marked with "spaghetti" tags by Oregon Fish Commission; July p. 43.

Salmon, coho, grilse \_\_\_\_\_ program in 1965 at Georgia Strait-Discovery Passage; Nov. p. 51.

Sardine \_\_\_\_\_ seminar held by FAO; Jan. p. 56.

Scandinavian fish-\_\_\_\_\_ method being tried by U. S. fish hatchery; Aug. p. 59.

Shark \_\_\_\_\_ project in eastern Pacific related to shark control work; Apr. p. 34.

Sonar tags used to study fish migrations; Jan. p. 54.

Statistics of Woods Hole Biological Laboratory; Oct. p. 44.

## TAIWAN

Consumption, fish, trends; June p. 78.

Fisheries trends in 1964; July p. 93.

## Tuna:

fleet, 1964; June p. 78.

Japan, vessel construction materials to be purchased from; Sept. p. 76.

vessels ordered from Japan; Sept. p. 76.

United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 51.

## TANZANIA, UNITED REPUBLIC OF

United Nations Special Fund, development project to aid fresh-water fisheries in East Africa; May p. 57.

## TARIFF(S)

## European Common Market:

import \_\_\_\_\_ quotas set for selected fishery products imported by West Germany and Belgium-Luxembourg; June p. 39.

proposal to hasten the removal of intra-Community trade barriers and the completion of the common external \_\_\_\_\_; Jan. p. 55.

European Free Trade Association reduces industrial \_\_\_\_\_ another 10 percent; Mar. p. 61.

GATT, twenty-second session meets in Geneva; May p. 54.

## TARIFF(S)

## United Kingdom import surcharge:

new, does not apply to fish and fish preparations nor to certain fishing vessels; Jan. p. 95.

reduced on industrial goods; May p. 88.

## TARIFF COMMISSION, U. S.

Free entry of temporary imports, study of; Sept. p. 82.

## TAX(ES)

Shrimp fishermen, certain Gulf, held to be independent contractors for \_\_\_\_\_ purposes; June p. 83, Sept. p. 83.

## TECHNICAL MEETING ON FISHING BOATS, INTERNATIONAL

Seattle man appointed chairman of \_\_\_\_\_; July p. 57.

## TECHNICAL NOTES

No. 1--A rapid field method for determining the salt concentration in fresh and smoked chub; Dec. p. 18.

## TENNESSEE RIVER

Mussel harvest decline in \_\_\_\_\_ related to overfishing; July p. 28.

## TENNESSEE VALLEY AUTHORITY

Trawler purchased for commercial "rough fish" explorations; Nov. p. 34.

## TEREDO

Biological control sought for boat-destroying \_\_\_\_\_; Mar. p. 131.

## TERRITORIAL LIMITS

Law of the Sea Institute established by University of Rhode Island; May p. 23.

## TERRITORIAL SEA AND CONTIGUOUS ZONE CONVENTION

Italy deposits accession to; May p. 55.

Uganda accedes to \_\_\_\_\_; Jan. p. 59.

## TERRITORIAL WATERS

Cyprus extends to 12 miles; Mar. p. 73.

European countries, violations charged by several; Mar. p. 61.

Guinea extends \_\_\_\_\_ to 130 miles; Mar. p. 75.

Japan may ratify two conventions on law of the sea; Mar. p. 83.

Sierra Leone extends to 12 miles; May p. 86.

Yugoslavia, extended \_\_\_\_\_ and control over adjacent

Continental Shelf resources, new law proclaims; Aug. p. 98.

## TEXAS

Fisheries, 1963; Mar. p. 53.

Landings, fishery, 1963; Mar. p. 53.

## THAILAND

Landings, marine, 1963; Aug. p. 88.

## THERMOCLINE

Tuna, albacore, vertical distribution influenced by second \_\_\_\_\_, Japanese scientists say; July p. 71.

## THIAMINASE

Reduction process to convert raw fish into \_\_\_\_\_ - free press cake; Dec. p. 13.

## TIDAL WAVES (see SEISMIC SEA WAVES)

## TOGO

Fisheries trends, Jan.-Oct. 1964; Jan. p. 91.

## TONGA ISLANDS

Shrimp, South Pacific lagoon, large species caught in; July p. 94.

## TRADE EXPANSION ACT

Kennedy Round and the \_\_\_\_\_; May p. 7.

## TRAINING PROGRAM

Commercial fishermen, trainee, on-the-job \_\_\_\_\_ for; Apr. p. 9.

Korean \_\_\_\_\_ for fishermen sponsored by United Nations special fund; Feb. p. 72.

## TRANSPORTATION

Airline cuts rates 40 percent on Northwest fishery shipments to eastern points; Dec. p. 44.

Cargo handling, "vanships" and "trailerships," special, facilitate handling of fish and other cargo in steamship trade between Alaska and Washington State; May p. 40.

Plastic fish boxes, new, to aid fresh fish marketing; Dec. p. 21.

Trailership, third, enters Alaska service; May p. 119.

Truck detention charges:

proposed by ICC for Middle Atlantic Territory; Mar. p. 98.

set for the Northeast; July p. 101.

Venezuela's shrimp \_\_\_\_\_ methods; Oct. p. 99.

## TRAPS

Lobster \_\_\_\_\_, dome-shaped, designed with unique features by Canadian firm; Jan. p. 67.

## TRAWL(S)

Comparison of fishing efficiency of Atlantic western and No. 41 \_\_\_\_\_ Sept. p. 37.

Measurement of in-use dimensions of four trawls during M/V "Delaware" cruise; Sept. p. 36.

Pelagic:

"Cobb," construction and operation of the (1964); Oct. p. 10.

"Cobb" to sample high-seas salmon populations, capability of; Feb. p. 1.

midwater, new, tested in Washington State waters; Feb. p. 36.

modified, being tested by M/V "St. Michael"; Oct. p. 44.

## TRAWLER(S)

Canada, stern \_\_\_\_\_, large, for Nova Scotia firm; May p. 62.

Shrimp, U. S.-built \_\_\_\_\_, three, operate off South America; May p. 45.

South-West Africa, freezer-stern \_\_\_\_\_, new fishing company plans purchase of; Mar. p. 90.

Soviets:

launch another large stern factory \_\_\_\_\_; Apr. p. 87.

receive another "Tropik" class stern \_\_\_\_\_ from East Germany; June p. 80.

Stern:

Canada, large \_\_\_\_\_ launched in; Mar. p. 70.

Japan:

delivered; Oct. p. 87.

## TRAWLER(S)

Stern:

Japan:

firms, two, to build large \_\_\_\_\_ for northwest

Atlantic fisheries; Nov. p. 66.

fishing company to build \_\_\_\_\_; Nov. p. 67.

plans large fishery \_\_\_\_\_ research vessel; Sept. p. 69.

United Kingdom:

design recommendations for stability and economy; Nov. p. 75.

freezer-\_\_\_\_\_ "Cape Kennedy" enters service; May p. 89.

stern \_\_\_\_\_, British firm orders two more semi-automated; Mar. p. 94.

## TRAWLING

Atlantic catch rate decline forecast; Nov. p. 74.

California, cod-end tests by M/V "Alaska"; Oct. p. 22.

Cone that can substitute for other boards invented in

Denmark; Mar. p. 40.

Electrical:

fishing with an electric field used as an adjunct to an otter-trawl net, an experiment in; June p. 1.

shrimp, studies continued on \_\_\_\_\_ in Gulf; Sept. p. 28.

Florida west coast bottomfish \_\_\_\_\_ potential surveyed by M/V "Hernan Cortez"; Aug. p. 39.

Great Lakes:

exploratory studies by M/V "Kaho"; Oct. p. 32.

Lake Superior, \_\_\_\_\_ studies continued in; Feb. p. 22.

Gulf of Alaska, bottom \_\_\_\_\_ surveys of the north-eastern part (summer and fall of 1961 and spring of 1962); Sept. p. 1.

Lampara, newly-designed pelagic trawl, tested by M/V "St. Michael" in North Pacific; Jan. p. 39.

North Atlantic:

gear evaluation studies continued by M/V "Delaware"; Nov. p. 30.

off-bottom \_\_\_\_\_ experiments continued by M/V "Delaware"; Apr. p. 26.

tow speed and distance effects on size and variability of catches; May p. 26.

Oahe reservoir \_\_\_\_\_ studies; Nov. p. 24.

Pelagic \_\_\_\_\_, experimental fishing in North Pacific with; Feb. p. 35.

Salmon, experimental \_\_\_\_\_ for high-seas; Feb. p. 1.

Shrimp \_\_\_\_\_, new type net designed in Netherlands for; Oct. p. 89.

South Africa:

Saldanha Bay, new \_\_\_\_\_ company at, backed by Spanish-South African interests; Jan. p. 90.

Spanish vessels, more attracted off; Jan. p. 91.

stern-trawlers "Pionier I" and "Pionier II," new; Jan. p. 87.

South Carolina experimental \_\_\_\_\_ for fish; Mar. p. 52, May p. 38, Sept. p. 45.

U.S.S.R., deep-water \_\_\_\_\_ tests in Bering Sea result in good catches; Apr. p. 86.

## TREASURY, DEPARTMENT OF THE (also see COAST GUARD, U. S.)

Antidumping regulations, changes announced in; Feb. p. 91.

## TROUT

Chilean \_\_\_\_\_ fishery cooperative in a desert; Jan. p. 104.

## TROUT (cont.)

- Eggs, Yugoslavia and U. S. exchange; Oct. p. 17.
- Fish-farming project for \_\_\_\_\_ and salmon planned in Scotland; Apr. p. 88.
- Pond \_\_\_\_\_ in Denmark:
  - exports to the U. S., Jan.-June 1965; Sept. p. 60.
  - surplus leads producers to seek minimum export prices; Sept. p. 59.
  - surplus supplies for export reduced; Oct. p. 72.
- Rainbow:
  - frozen, exports:
    - Denmark; July p. 64.
    - Japan; June p. 62, July p. 80, Sept. p. 69, Nov. p. 65.
  - plantings, fingerling, in western lake by airplane; Dec. p. 111.
- U. S. \_\_\_\_\_ Farmers Association held convention, Oct. 6-8, 1965, in Washington, D. C.; Nov. p. 36.

## TRUCK(S)

- Detention charges in Middle Atlantic territory proposed by ICC; Mar. p. 98.
- Interstate Commerce Commission sets detention charges for the Northeast; July p. 101.

## TUNA

- Albacore:
  - age of \_\_\_\_\_, determining; Aug. p. 127.
  - Atlantic, Japanese industry plans to stabilize export market; Sept. p. 65.
  - bluefin and, Pacific fishery affected by erratic water temperatures, July-August 1965; Nov. p. 36.
  - canned in oil, Japanese \_\_\_\_\_ Federation to promote; Dec. p. 62.
  - catch rates in South Pacific; Aug. p. 31.
  - forecast for U. S. Pacific coastal area catch, 1965; July p. 49.
- Japan:
  - Atlantic:
    - export quotas for; July p. 69.
    - export trade, industry to establish council to regulate; July p. 68.
    - fishery and price trends; Oct. p. 78.
    - fishing conditions; June p. 58.
    - fishing and market trends, mid-May 1965; Aug. p. 76.
    - frozen, prices drop in Dec. 1964; Feb. p. 62.
    - frozen, export market, \_\_\_\_\_ Federation develops plan to stabilize; July p. 69.
    - industry plans to stabilize export market; Sept. p. 65.
    - market stabilization, industry members discuss; Aug. p. 76.
    - plan to promote domestic demand; Oct. p. 79.
    - South Atlantic, caught by long-line vessels in; Sept. p. 65.
    - summer fishery:
      - catch; Sept. p. 65.
      - export price trends; July p. 68.
      - pole-and-line, excellent; Aug. p. 75.
      - trends as of mid-June 1965; Aug. p. 75.
  - Pacific 1965 season, first caught off California for; Aug. p. 55.
  - vertical distribution influenced by second thermocline, Japanese scientists say; July p. 71.
- American Samoa:
  - fleet, composition of; Nov. p. 18.
  - Japanese assign 20 long-line vessels to; Dec. p. 26.
  - prices; Jan. p. 18.

## TUNA

- American Samoa:
  - transshipment to Japan; Nov. p. 19.
  - vessels, more, fishing; Mar. p. 20.
  - wage rates for cannery workers, hearings held on; Oct. p. 106.
- Atlantic coast:
  - becomes more important on \_\_\_\_\_; May p. 119.
  - fishery, review of the development of; Mar. p. 1.
- Atlantic Ocean:
  - Food and Agriculture Organization Working Party prepares draft convention for the conservation of; Sept. p. 52.
- Japan:
  - fishing trends and export prices, Feb. 1965; Apr. p. 70.
  - long-line fishery trends; Sept. p. 65.
- Australia:
  - canned \_\_\_\_\_, new import duties on; Mar. p. 68.
  - catch down in 1965; Aug. p. 65.
  - fishery trends:
    - early 1965; June p. 46.
    - 1953-64; Apr. p. 60.
    - 1936-64; Apr. p. 52.
  - off South Australia, early April 1965; Aug. p. 66.
  - northern waters, survey under way in; Nov. p. 46.
  - smoked \_\_\_\_\_ product introduced, new; Aug. p. 67.
  - survey for \_\_\_\_\_ in northern waters planned; Oct. p. 66.
- Tasmanian survey:
  - planned for 1965 off; Apr. p. 51.
  - results not up to expectations; Aug. p. 66.
- Behavior studies of \_\_\_\_\_ aid to U. S. fishing industry; May p. 41.
- Big-eyed, American Samoa deliveries, rejections reported high for; Aug. p. 24.
- Bluefin:
  - Australian live bait-pole fishery for \_\_\_\_\_ may be developed; Apr. p. 61.
  - forecast for U. S. Pacific coastal area catch, 1965; July p. 49.
  - Italy, frozen fish rejected by cannery; Dec. p. 59.
  - Japan, fresh product commands high price; Aug. p. 76.
- Canada:
  - Caribbean and South Atlantic exploratory cruise to study \_\_\_\_\_ and swordfish; July p. 61.
  - purse-seiner launched as east coast \_\_\_\_\_ industry project moves forward; Mar. p. 70.
- Canned:
  - Ecuador's exports to Brazil; Mar. p. 74.
  - imports in brine under quota; Jan. p. 50, Feb. p. 44, Mar. p. 55, Apr. p. 40, May p. 46, June p. 34, July p. 51, Aug. p. 57, Sept. p. 47, Oct. p. 57, Nov. p. 38, Dec. p. 44.
- Japan:
  - canning firm granted patent for new pack; Oct. p. 81.
  - exporters:
    - handled 80,000 cases for export to U. S. in July 1965; Oct. p. 79.
    - extension of export agreement requested; Dec. p. 61.
  - export(s):
    - sales, cannerys adopt measures to overcome drop in; Nov. p. 63.
    - target for FY 1965; July p. 80.
    - trends; Oct. p. 79.
  - to United States:
    - developments on suspension of; Mar. p. 79, Apr. p. 71.

## TUNA (cont.)

Canned (cont.):

Japan (cont.):

export(s) (cont.):

to United States (cont.):

suspended; Feb. p. 65.

market:

survey conducted in U. S.; Feb. p. 66.

trends; Aug. p. 74.

packers and exporters fail to make export agreement; Feb. p. 65.

pack trends; July p. 69, Aug. p. 74.

price-quantity adjustments, exporters ask for; Sept. p. 67.

promotion in U. S., funds budgeted for; Feb. p. 66.

shipments from Shimizu, March 1965; July p. 70.

specialty pack, U. S. consumer response to; Aug. p. 75.

U. S., views on poor sales in; Oct. p. 79.

palletized unit loads for \_\_\_\_\_ purchases to be required on test basis by Defense Subsistence Supply Center; Aug. p. 35.

Canned in brine:

import quota for 1965; July p. 104.

Japan:

export sales developments; July p. 70.

exports to U. S., progress of negotiations for; May p. 72, June p. 57.

sales to U. S.; July p. 69, Aug. p. 74, Dec. p. 61.

stocks and exports to U. S. as of Sept. 6, 1965; Dec. p. 61.

stocks on hand; Sept. p. 67.

Canned in oil, Japanese exports, FY 1964; July p. 70.

Canned specialty packs, Japanese exports, FY 1964; July p. 70.

Central and eastern Pacific, oxygen studies in relation to catching \_\_\_\_\_; Dec. p. 28.

Central Pacific:

biological studies for skipjack \_\_\_\_\_ continued by M/V "Charles H. Gilbert"; June p. 17.

blood group studies of \_\_\_\_\_, advances made in; Apr. p. 18.

research observations by U. S. Bureau of Commercial Fisheries Honolulu Biological Laboratory; Aug. p. 31.

submarine used in skipjack \_\_\_\_\_ research; Dec. p. 29.

Chilean export industry planned; Jan. p. 70.

Ecuadorian landings and exports, 1964; Aug. p. 71.

Experiments on \_\_\_\_\_ response to outside stimuli conducted by Bureau of Commercial Fisheries Honolulu Laboratory; Jan. p. 22.

Faroe Islands:

vessel for \_\_\_\_\_ fishing in Somali not completed, U. S. charter of; Feb. p. 59.

vessel to long-line for \_\_\_\_\_ in Caribbean; Mar. p. 74.

Fiji Islands, Anglo-Japan base in; Dec. p. 54.

Food and Agriculture Organization, Atlantic \_\_\_\_\_ Commission organization proposed at Advisory Committee meeting; June p. 40.

France, price and landing trends, 1964; Nov. p. 57.

French Somaliland, Gulf of Aden, \_\_\_\_\_ explorations in the; Feb. p. 60.

Fr \_\_\_\_\_, Japanese exports approved of; Feb. p. 62.

Frozen:

Italian import quota, duty-free, in 1965 set by EEC; May p. 69.

## TUNA

Frozen:

Japan:

cost of shipping Indian Ocean \_\_\_\_\_ to Puerto Rico; Feb. p. 63.

exports:

approved for; Feb. p. 62.

market trends; Jan. p. 74, May p. 70, June p. 58.

quotas for FY 1965; Mar. p. 76, May p. 70.

target for FY 1965; July p. 80.

targets for 1965/66; May p. 69.

to U. S. and Puerto Rico; Aug. p. 73, Sept. p. 64, Nov. p. 60.

validations to U. S.; Jan. p. 75, Feb. p. 61, Mar. p. 76, Apr. p. 70, May p. 70, Oct. p. 78, Dec. p. 60.

Puerto Rico canneries, shipments to, 1964; May p. 31.

Korea Republic's export target for 1965; Oct. p. 89.

Gulf of Guinea survey continued; Oct. p. 54.

Gulf of Mexico, observations of \_\_\_\_\_ on cruises of the exploratory fishing vessel "Oregon," 1950-63; Jan. p. 7.

Italy, vessel launched; May p. 69.

Ivory Coast:

canned \_\_\_\_\_ production plans, 1965/66 season;

July p. 88.

transshipments to other countries in 1964; Oct. p. 76.

Japan:

Africa, \_\_\_\_\_ purse-seine fleet arrives in; Jan. p. 75.

American Samoa base, vessel operators seek use of larger vessels at; Jan. p. 19.

Asian \_\_\_\_\_ conference being considered; Dec. p. 63.

Atlantic Ocean:

fishery and price trends, Mar. 1965; June p. 58.

fishing trends in; Feb. p. 64.

resources to be surveyed; Feb. p. 64.

resources, fishery research vessel to study; Oct. p. 79.

tropical, \_\_\_\_\_ fleet in Dec. 1964; Feb. p. 64.

vessels operating in; Nov. p. 62.

bait for long-line \_\_\_\_\_ fisheries, poor saury season creates shortage in; Feb. p. 64.

canners adopt new sales procedures; Mar. p. 78.

Cape Verde Islands \_\_\_\_\_ base, long-liners fish out of; Feb. p. 54.

exporters unhappy over Yugoslavian grading system; June p. 59.

exports:

conference in New York City; Nov. p. 61.

fresh and frozen \_\_\_\_\_, 1963-64; Nov. p. 66.

Federation:

measures discussed to stabilize industry; Dec. p. 63.

measures studied to overcome depressed economic condition; Oct. p. 80.

fishing and market trends; Mar. p. 77, Dec. p. 62.

fishing effort, preliminary plan developed to reduce; May p. 73.

fleet:

activities and landings; Nov. p. 61.

bonito-\_\_\_\_\_ fishing, vessel decrease planned in; Apr. p. 72.

government official stresses need for reducing; May p. 73.

government:

assistance, industry urged to reduce reliance on; Mar. p. 80.

-industry meetings discuss status of \_\_\_\_\_ industry; July p. 71, Sept. p. 66, Dec. p. 62.



## TUNA (cont.)

## Japan (cont.):

Guam, purse-seiner in November to fish off; May p. 73.

Gulf of Guinea, fleet fishing \_\_\_\_\_ in; Feb. p. 63. industry submits views on way of strengthening industry; Oct. p. 80.

landings at Yaizu; July p. 79, Sept. p. 64, Nov. p. 62. licenses, fishing, market value of; Oct. p. 81.

long-line gear, improved method for setting and retrieving developed; Dec. p. 72.

management, long-line fishery; June p. 59.

mothership, \_\_\_\_\_, operations in South Pacific show losses; Feb. p. 64.

organization, new, to represent coastal fishermen; Oct. p. 81.

overseas bases, larger vessels to operate from; June p. 58.

Pacific, eastern, research vessel returns from survey in; May p. 72.

pole-and-line fishery, interest increases in; Nov. p. 62.

## purse-seine:

fleet reports poor \_\_\_\_\_ fishing off West Africa; Feb. p. 63.

operation, new, off Africa observed by fishing company officials; Feb. p. 63.

## purse-seiner:

constructed, modern; June p. 59.

operation off Guam cancelled; Aug. p. 76.

research vessel surveys Atlantic; Dec. p. 64.

## South Pacific:

## mothership:

ends operations in early Sept.; Nov. p. 61.

fishery trends; Mar. p. 78.

fleet catch; Aug. p. 76, Sept. p. 65.

fleet lands; Feb. p. 64.

to be sent to; May p. 73.

Soviets offer exchange of \_\_\_\_\_ fishing data with;

Aug. p. 76.

storage fees, packers see cut in; Nov. p. 63.

study group, special, government considering forming; June p. 59.

## vessel(s):

Formosa construction bids awarded; Jan. p. 80.

refueling at sea; Feb. p. 65.

research group to be formed; Mar. p. 77.

wage agreement signed by boat owners and crew members; Oct. p. 81.

West Africa, purse-seine fleet reports poor fishing off; June p. 58.

Korea, first vessels received under French-Italian contract; May p. 81.

Landings, U. S., different periods; Feb. p. 42, Oct. p. 56.

Larvae sampling equipment tested by M/V "Charles H. Gilbert"; Oct. p. 26.

Loins, frozen, Japanese export validations to U. S.; Jan. p. 75, Feb. p. 61, Mar. p. 76, May p. 70, Dec. p. 60.

Malaysia, Singapore industry expansion planned; Sept. p. 72.

Mediterranean General Fisheries Council, working party for \_\_\_\_\_ set up at 8th annual session of; Aug. p. 63.

## Morocco:

## fishing venture:

extended, shows promising results; July p. 86.

long-range, continued; Aug. p. 88.

## TUNA

## New Zealand:

explorations on east coast show promise; Oct. p. 90. fishery development program initiated; June p. 66.

North Atlantic, western, distribution studies continued by M/V "Delaware"; Feb. p. 31, July p. 32, Nov. p. 27.

## Pacific Ocean:

central, biological studies of skipjack \_\_\_\_\_ continued; Jan. p. 22.

eastern, intergovernmental meeting on regulation of \_\_\_\_\_ fisheries in; June p. 42.

sonar, specially designed system for locating subsurface \_\_\_\_\_; Aug. p. 31.

Poland's canning experiments; Aug. p. 92.

Porpoise, spinner, behavior studied in relation to \_\_\_\_\_ fishery; Apr. p. 125.

Puerto Rico, wage rate, minimum, for \_\_\_\_\_ canning; May p. 98.

## Recipes:

Creole \_\_\_\_\_ chowder for busy people; July p. 11. macaroni-\_\_\_\_\_ casserole; Aug. p. 126.

pizza burgers of \_\_\_\_\_; Oct. p. 130.

teen-age cooks; May p. 90.

Ryukyu Islands, \_\_\_\_\_ fisheries investment opportunity in; Jan. p. 36.

See a net, how \_\_\_\_\_; Mar. p. 11.

## Senegal:

industry to receive aid from U.S.S.R.; Jan. p. 86. vessels, fishing, nine new; Nov. p. 70.

## Shark:

damage to \_\_\_\_\_ purse-seine nets; Apr. p. 34.

repellents tested as part of \_\_\_\_\_ behavior program; June p. 38.

## Skipjack:

behavior and response to signals studied; July p. 20. biological studies in the Central Pacific continued;

Jan. p. 22, Feb. p. 16, June p. 17, Aug. p. 28, Sept. p. 20, Oct. p. 26.

blood group studies of \_\_\_\_\_ conducted by Bureau of Commercial Fisheries Biological Laboratory, Honolulu; June p. 18.

## Central Pacific:

appear in large numbers around Hawaiian Islands; Aug. p. 29.

behavior studies of live \_\_\_\_\_ aided by transport techniques; Aug. p. 29.

forecast for summer 1965 Hawaiian fishery; July p. 19.

## Japan:

fishing slow; Oct. p. 78.

landings down for April-July 1965; Oct. p. 78.

origin and movement of \_\_\_\_\_ in Pacific Ocean studied; Mar. p. 26.

## South Africa:

## vessels:

five, ordered by fishing firm; Jan. p. 87.

"Verkenner I" and "Verkenner II" join \_\_\_\_\_ fishery; Jan. p. 87.

South and tropical Atlantic, seasonal availability investigated by M/V "Oregon"; Mar. p. 50, July p. 47.

Striped, Australian fishery developments in 1963/64 season; Apr. p. 60.

## Taiwan:

fleet, 1964; June p. 78.

Japan, vessel construction materials to be purchased from; Sept. p. 76.

vessels ordered from Japan; Sept. p. 76.

## U.S.S.R.:

factoryships built in Japan; Mar. p. 91.

## TUNA (cont.)

U.S.S.R. (cont.):

Indian Ocean \_\_\_\_\_ fishing trends, mid-1965; Nov. p. 72.

Japanese exchange of \_\_\_\_\_ fishing data offered by; Aug. p. 76.

Pacific, eastern, expedition sent to explore in; Nov. p. 72.

Venezuela:

fisheries investment opportunity; Oct. p. 100.

Japan reduces holding in joint \_\_\_\_\_ enterprise; Nov. p. 76.

landings, 1963; Apr. p. 89.

West Africa, large concentrations found off coast by R/V "Geronimo"; July p. 40.

Yellowfin:

Atlantic, eastern tropical fishery; Aug. p. 7.

eastern Pacific quota recommended by Inter-

American Tropical Tuna Commission; June p. 41.

visual acuity experiments; Aug. p. 31.

Yugoslavia:

market surveyed by Japanese; July p. 96.

purse seiners being built; Apr. p. 91.

vessels:

being built with aid of foreign know-how; Jan. p. 96.

## TUNISIA

Yugoslavia builds fishing vessels for \_\_\_\_\_; Apr. p. 90.

## TURKEY

Cyprus law extending territorial waters to 12 miles protested by \_\_\_\_\_; Mar. p. 73.

## UGANDA

Commercial fishery being developed; Apr. p. 82.

Convention:

Continental Shelf, ratified by \_\_\_\_\_; Jan. p. 59.

Fishing and Conservation of Living Resources of

the High Seas, ratified by Uganda; Jan. p. 59.

High Seas, ratified by \_\_\_\_\_; Jan. p. 59.

Territorial Sea and Contiguous Zone, ratified by \_\_\_\_\_; Jan. p. 59.

United Nations Special Fund, fresh-water fisheries

development in \_\_\_\_\_ assisted by; Apr. p. 51.

May p. 57.

## UNDERWATER LABORATORY

U.S.S.R. plans \_\_\_\_\_; Oct. p. 98.

## UNEMPLOYMENT INSURANCE

Washington fishing industry costs for \_\_\_\_\_; Mar. p. 57.

## UNESCO

Intergovernmental Oceanographic Commission of \_\_\_\_\_ establishes Working Group on Mutual Assistance; May p. 55.

## UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.)

Alaska, fishing activity of \_\_\_\_\_ off coast; Jan. p. 16, Feb. p. 14, Mar. p. 17, Apr. p. 12, May pp.

1 and 11, June p. 14, July p. 15, Aug. p. 20, Sept.

p. 16, Oct. p. 19, Nov. p. 14, Dec. p. 22.

Antarctic fishing grounds found by research vessel; Oct. p. 97.

Atlantic, south, and Indian Ocean fisheries base on the Black Sea, expansion of; Dec. p. 81.

## UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.)

Baltic Sea base, new, for freezership fleets; June p. 80.

Catch and fishing fleet increase planned during 1966-70; Sept. p. 77.

Cod:

Arctic resource, \_\_\_\_\_-Norwegian talks on; May p. 82.

blocks go to West Germany and other countries; Apr. p. 85.

Crab, king:

Alaska:

fishing gear in areas off Kodiak, \_\_\_\_\_ ratifies agreement on; Feb. p. 51.

research observed by scientists of \_\_\_\_\_; Oct. p. 21.

meat, canned, production from Sea of Okhotsk, 1958-64; Mar. p. 91.

Pacific, western, catch quota for 1965 set by Japanese-Soviet negotiators; June p. 43.

Soviet factoryship off Alaska violates U.S.-\_\_\_\_\_ fishing agreement; Aug. p. 23.

U.S.-\_\_\_\_\_ agreement on fishing on U. S. Continental Shelf of North Pacific; Apr. p. 46.

Cuban fisheries, \_\_\_\_\_ aid to; Apr. p. 65.

Cuban-\_\_\_\_\_ fishery and oceanographic research in the Gulf of Mexico and Caribbean; Oct. p. 70.

Danish fishing limits, fishing vessels from \_\_\_\_\_ charged with interfering with Danish fishermen inside; Mar. p. 61.

Electrical fishing with lights and pumps; Jan. p. 93.

Far East:

fisheries development; Nov. p. 72.

Province of Sakhalin expands fisheries; Apr. p. 87.

Fish fillet blocks, Mass. State Legislature passes resolution on imports of \_\_\_\_\_ cod; May p. 23.

Fish meal:

Okhotsk Sea, joint Soviet-Japanese operations successful in; May p. 76.

operations, joint Soviet-Japanese, in Okhotsk Sea, protested by Hokkaido fishermen; Sept. p. 69.

Fleet expansion for high seas, fishing goals emphasized; Apr. p. 85.

Georges Bank, \_\_\_\_\_ fishing activity on; Feb. p. 30, Mar. p. 43, Apr. p. 25, May p. 24, June p. 27, July

p. 30, Aug. p. 45, Sept. p. 34, Oct. p. 41, Nov. p. 32, Dec. p. 40.

Ghana receives new trawler from \_\_\_\_\_; Jan. p. 72.

Herring:

Japan:

delegation negotiates purchase from \_\_\_\_\_; Feb. p. 70.

to import from \_\_\_\_\_; Mar. p. 82.

Indian Ocean and South Atlantic fisheries base on the Black Sea, expansion of; Dec. p. 81.

Japan:

fisheries negotiations, progress of; June p. 42.

fishing vessels off northeastern coast of; Jan. p. 92.

views on \_\_\_\_\_ fishing expansion to new fishing grounds; Mar. p. 82.

Kelp:

fishery agreement with Japan extended two years; July p. 82.

Japanese industry submits application for importation from \_\_\_\_\_; Nov. p. 67.

Lobster, spiny, new grounds in Indian Ocean fished by \_\_\_\_\_ and South Africans; Oct. p. 95.

Mackerel:

Japan, large vessel fishing off; Dec. p. 82.

UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.)  
(cont.)

## Mackerel (cont.):

Pacific, eastern, \_\_\_\_\_ sends expedition to explore in; Nov. p. 72.

North American coast, fishing activities off; Feb. p. 30, Mar. p. 43, Apr. p. 25, May p. 24, June p. 27, July p. 30, Aug. p. 45, Sept. p. 34, Oct. p. 41, Nov. p. 32, Dec. p. 40.

Northwest Pacific Fisheries Commission, preconference views of Japan and \_\_\_\_\_ on salmon and crab negotiations; May p. 53.

Northwest Pacific Fisheries Treaty, views in Japan on extending; July p. 81.

Norway, joint talks on fisheries with; June p. 44.

## Oceanography:

expedition made jointly with Norway; Dec. p. 49. scientists visit U. S. under exchange program; Dec. p. 49.

study in Gulf of Mexico and South Atlantic conducted by Cuban-\_\_\_\_\_ expedition; Apr. p. 66.

study in Kara Sea north of \_\_\_\_\_, U. S. Coast Guard cutter "Northwind" completes; Dec. p. 42.

Pacific Ocean, \_\_\_\_\_ fishery research in the; Apr. p. 86.

## Pollock:

## Alaska:

## Japanese:

firms to buy from U.S.S.R.; Oct. p. 83.

Government's policy on imports from \_\_\_\_\_ questioned; Dec. p. 70.

## Japan:

factoryship to buy for fish meal from \_\_\_\_\_

fishing vessels; Mar. p. 83.

hearing on imports of, from Okhotsk Sea for fish meal; July p. 82.

price negotiation deadlocked; Nov. p. 67.

Refrigerated and freezer trawlers, large, average annual catch of; Nov. p. 73.

## Research:

exploratory cruise to the tropical Atlantic and the Antarctic by "Akademik Knipovich"; Nov. p. 72.

underwater laboratory planned; Oct. p. 98.

## Salmon:

canned exports, 1963; Mar. p. 92.

## catch:

in 1964; May p. 50.

northwest Pacific, 1962-64; May p. 53.

hybrid announced by \_\_\_\_\_; Mar. p. 92.

Japanese feel Soviets may start mothership-type fishery in North Pacific; Feb. p. 67.

Northwest Pacific area B fishery, Japanese-Soviet negotiators agree on joint inspection of; June p. 43.

western Pacific, Japan to ask \_\_\_\_\_ for 120,000-ton catch quota for 1965 season in; Apr. p. 72.

## Sardines:

landings, frozen, in Togo; Jan. p. 91.

Pacific, eastern, \_\_\_\_\_ sends expedition to explore in; Nov. p. 72.

## Saury:

fishery off Japan, \_\_\_\_\_ expands operations in; Dec. p. 69.

Japan, Soviets fishing off northeastern coast of; Feb. p. 71.

Pacific, electrical fishing system with lights and pumps designed to catch; Jan. p. 93.

Seaweed for animal feed, \_\_\_\_\_ to use; Dec. p. 82.

South Africa, \_\_\_\_\_ trawling activities off, December 1964; June p. 79.

## UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.)

Sperm oil, Antarctic production, 1964/65; Aug. p. 95.

Sprat catch in the Caspian Sea by nets and pumps, 1963, with comparisons; Jan. p. 93.

Trade protocol for fishery products signed with Norway; Aug. p. 65.

## Trawler(s):

freezer-type, new, for \_\_\_\_\_ built in Denmark; Feb. p. 80.

## stern:

-factory, another launched by \_\_\_\_\_; Apr. p. 87.

new series to be built by East Germany; Oct. p. 97.

status of fleet of large; Jan. p. 92.

"Tropik" class, another delivered to \_\_\_\_\_ by East Germany; June p. 80.

## Trawling:

activities by \_\_\_\_\_ vessels off South Africa, October 1964; Mar. p. 93.

deep-water, tests in Bering Sea result in good catches; Apr. p. 86.

off the South Africa Republic; Dec. p. 80.

## Tuna:

factoryships built in Japan; Mar. p. 91.

fishing data exchange with Japan offered by \_\_\_\_\_; Aug. p. 76.

fishing trends in the Indian Ocean, mid-1965; Nov. p. 72.

landings, frozen, in Togo; Jan. p. 91.

Pacific, eastern, \_\_\_\_\_ sends expedition to explore in; Nov. p. 72.

Senegal industry to receive aid from \_\_\_\_\_; Jan. p. 86.

## Vessels:

"Akademik Knipovich," maiden cruise of; Nov. p. 72.

exploratory cruise to the tropical Atlantic and the Antarctic; Nov. p. 72.

## factoryships:

built in West Germany for \_\_\_\_\_; Nov. p. 73.

Japan launches new series for \_\_\_\_\_; Apr. p. 86, July p. 94.

factory trawler sold to Greek firm by \_\_\_\_\_; Dec. p. 56.

fishing fleet and catch, big increase planned during 1966-70 in \_\_\_\_\_; Sept. p. 77.

fishing, second congress of Socialist countries attended by \_\_\_\_\_; May p. 57.

freezer-trawlers delivered to \_\_\_\_\_ by Danish shipyard;

"Geizer"; July p. 95.

"Gletcher"; Nov. p. 73.

"Golfstrim"; Mar. p. 93.

"Pavlovo" and "Priluki"; Sept. p. 76.

"Skazochnik Andersen"; Apr. p. 87.

"Zapoljarnyj"; June p. 79.

North Vietnam receives three freezer trawlers from \_\_\_\_\_; Dec. p. 75.

"submarine hydroplane" to observe fishing gear, Soviets develop small; Aug. p. 96.

## trawlers:

factory stern, and transports to be delivered to Bulgaria by the \_\_\_\_\_; Aug. p. 68.

300-ton, to be built in Bulgaria for \_\_\_\_\_; Aug. p. 68.

Whale oil, Antarctic production, 1964/65; Aug. p. 95.

## Whaling:

## Antarctic:

catch, 1964/65; June p. 44.

fleet plans preseason hunting for toothed sperm

whales; Jan. p. 94.

season, 1964/65, participation by \_\_\_\_\_; Jan. p. 60.

# UNION OF SOVIET SOCIALIST REPUBLICS (U.S.S.R.) (cont.)

## Whaling (cont.):

North Pacific Ocean, floating factory-type operations by \_\_\_\_\_ in; Jan. p. 94.

Yemen, \_\_\_\_\_ assistance to develop fisheries in; May p. 90.

# UNITED KINGDOM

Atlantic trawler catch rate decline forecast; Nov. p. 74.

Canadian fisheries firm joins British frozen food concern; Apr. p. 88.

Ceylon's fisheries, Scottish group to help develop; May p. 63.

Conference on design of fishing vessels and their equipment in relation to fish quality improvement; Sept. p. 78.

Fish boxes, lightweight plastic, to be produced; Nov. p. 75.

## Fish farming:

marine experiments in Scottish Bays; Nov. p. 74.  
salmon and trout project planned in Scotland; Apr. p. 88.

Fishing exhibition held in London; Sept. p. 79.

## Fishing limits:

extended British, stir protests among French herring fishermen; Nov. p. 74.  
extended to 12 miles; Jan. p. 94.  
foreign fishing privileges within new 12-mile; Jan. p. 94.

Fish meal production, 1964; May p. 88.

Frozen fishery products, demand increases for; May p. 88.

Frozen processed fishery products, disposition, exports, imports, production, and supply, 1963-64 and 1954; July p. 95.

Frozen processed white fish supply situation, Jan.-Mar. 1965; Oct. p. 98.

## Import surcharge:

new, does not apply to fish and fish preparations nor to certain fishing vessels; Jan. p. 95.  
reduced on industrial goods; May p. 88.

Irradiation-preservation of frozen fish under study; Sept. p. 79.

Landings, fishery, in 1963; Mar. p. 63.

Loan, fishery, interest rates revised; June p. 80, Sept. p. 79, Oct. p. 98, Dec. p. 82.

Lobster hatching experiments in Guernsey; Dec. p. 82.

Newfoundland, Canadian-British joint fisheries venture in; Dec. p. 52.

## North Sea:

charts, fisheries, published by \_\_\_\_\_; Dec. p. 48.

Continental Shelf agreements between \_\_\_\_\_ and the Netherlands; Dec. p. 83.

Plankton, oceanographic cruise to use "sound pictures" to study; Nov. p. 76.

Preserving fish in antibiotic ice, patent issued for method of; Apr. p. 88.

Quality improved by boxing fish at sea, British say; Aug. p. 96.

Salmon, canned:

## Japanese:

firms contract for early delivery to Great Britain; Aug. p. 77.

motherhip pack to be transhipped directly to \_\_\_\_\_; July p. 74.

set 1965 export prices for shipment to \_\_\_\_\_; Aug. p. 77.

# UNITED KINGDOM

Salmon, canned:

## Japanese:

to ship to \_\_\_\_\_ direct from fishing grounds; Aug. p. 77.

Sardines, canned, supply situation; Jan. p. 95.

Scallops, frozen, exported by Scotland to European continent; Oct. p. 98.

"Seaweed," artificial, used in coastal erosion-prevention tests; Nov. p. 27.

## Shrimp:

### Persian Gulf:

Anglo-Arabian fishing venture in; Mar. p. 87, Nov. p. 74.

fishing venture to be managed by U. S. experts; Dec. p. 78.

"Sound wave searchlight," underwater, developed for fisheries use; Jan. p. 96.

South Africa, exploratory vessel may be sent by \_\_\_\_\_ to waters off; Dec. p. 80.

## Subsidy:

Government, for fishing vessel improvement; July p. 95.

rates, reduced, proposed for white fish and herring fishermen; Oct. p. 99.

Trade with U. S. in fishery products, 1963; May p. 88.

## United States:

demand for European fish very big says British executive; Aug. p. 96.

imports of fishery products from \_\_\_\_\_, 1963; June p. 34.

## Vessel(s):

construction loan from Great Britain, Japanese firm obtains; Jan. p. 80.

design recommendations for small vessels for stability and economy; Nov. p. 75.

fishing, design in relation to fish quality improvement, meeting to be held on; Apr. p. 88.

fishing, Government subsidy for improvement; July p. 95.

for firm in \_\_\_\_\_ to be built in Poland; Oct. p. 95.

## freezer-trawler:

"Cape Kennedy" enters service; May p. 89.

emphasized in distant-water fisheries; Sept. p. 78.

fleet of 22 vessels for distant-water fisheries planned by mid-1966; Sept. p. 78.

new, "Victory" lands blocks of whole frozen fish; Sept. p. 77.

## stern trawler:

British firm orders two more semiautomated; Mar. p. 94.

new semiautomated, "Ross Dainty"; Mar. p. 94, Aug. p. 97.

new semiautomated, "Ross Fortune"; Aug. p. 96.

trawler "Stella Leonis" repeats as winner of Silver Cod Trophy in 1964; June p. 81.

tuna, four being built for Senegal; Nov. p. 70.

White fish, frozen processed, supply situation, Jan.-Mar. 1965; Oct. p. 98.

# UNITED NATIONS

## Special fund of \_\_\_\_\_:

assistance for Brazil; Oct. p. 64.

assists research in low-income countries; Apr. p. 49.

Caribbean program, South Atlantic exploratory cruise of M/V "Oregon" in cooperation with \_\_\_\_\_; Sept. p. 43.

Development projects to aid fisheries in Argentina, Ghana, Pakistan, Central America, and East Africa; May p. 55.

## UNITED NATIONS (cont.):

- Special Fund of \_\_\_\_\_ (cont.):  
 fisheries development projects; Jan. p. 60.  
 Korean training program for fishermen sponsored by \_\_\_\_\_; Feb. p. 72.  
 Mexican fisheries development, \_\_\_\_\_ to aid; Dec. p. 74.  
 Philippines, \_\_\_\_\_ project for the; Oct. p. 64.

## UNITED STATES

- Alaska, plans for joint Japanese-\_\_\_\_\_ firm to process fish in; Aug. p. 23.  
 Crab, king:  
   Bering Sea, Eastern, \_\_\_\_\_-Japanese talks concluded on fishing in; Jan. p. 26.  
   Soviet-\_\_\_\_\_ agreement on fishing on \_\_\_\_\_ Continental Shelf of North Pacific; Apr. p. 46.  
 Great Lakes commercial fishery landings in 1964; Aug. p. 38.  
 Landings, fishery:  
   in 1963; Mar. p. 63.  
   in 1964 have higher ex-vessel value; July p. 50.  
 Nigeria, \_\_\_\_\_ firms plan fishing venture in; Apr. p. 78.  
 Research, fishery, data exchange with Mexico; Dec. p. 49.

## UNITED STATES DISTRICT COURT

- Certain Gulf shrimp fishermen held to be independent contractors for tax purposes; Sept. p. 83.

## UNITED STATES-JAPAN COMMITTEE ON TRADE AND ECONOMIC AFFAIRS

- Fourth meeting of \_\_\_\_\_; Oct. p. 63.

## UNITED STATES NAVY

- Oceanography, aircraft squadron, new, commissioned to conduct research; Oct. p. 48.

## UNIVERSITY OF MIAMI (see MIAMI, UNIVERSITY OF)

## UPPER VOLTA

- Participates in seminar on administration and planning for fisheries development; June p. 39.

## URUGUAY

- Bulgaria proposes fishery project in \_\_\_\_\_; Nov. p. 76.  
 Fur seal industry; Apr. p. 84.

## VENEZUELA

- Fisheries investment opportunity in \_\_\_\_\_; Aug. p. 97.  
 Sardines, fishery trends and exports, 1963; Apr. p. 89.  
 Shrimp:  
   fisheries investment opportunity; Oct. p. 100.  
   fishery trends and exports, 1963; Apr. p. 90.  
   Florida firm, industry opposes entry of; Nov. p. 76.  
   industry expanding; Oct. p. 89.  
   Panaeidi, in eastern \_\_\_\_\_, some observations on the distribution of; July p. 12.  
   transport methods; Oct. p. 99.  
 Tuna:  
   fisheries investment opportunity; Oct. p. 100.  
   Japan reduces holding in joint enterprise in \_\_\_\_\_; Nov. p. 76.  
   landings, 1963; Apr. p. 89.

## VERACRUZ

- Port facility, new, completed at Alvarado; Feb. p. 74.

## VESSEL(S)

- Argentina reduces import charges on certain \_\_\_\_\_; June p. 46.  
 Australian tuna \_\_\_\_\_, new, "Karina G" launched; Dec. p. 50.  
 Brine-freezing system aboard \_\_\_\_\_, Japanese firm to experiment with; June p. 62.  
 Canada:  
   insurance plan extended; Apr. p. 63.  
   stern-trawler, large, for Nova Scotia firm; May p. 62.  
   subsidy extended; Apr. p. 63.  
   subsidy increase emphasizes importance of Pacific trawling; May p. 59.  
   tuna purse-seiner launched as east coast project moves forward; Mar. p. 70.  
 Coast Guard, U. S.:  
   fishermen advised to study new International Rules of the Road; May p. 42.  
   rules of the road, pamphlet issued on; July p. 51.  
 Collisions at sea, international regulations for preventing; Jan. p. 103.  
 Conference on design of \_\_\_\_\_ and their equipment in relation to fish quality improvement; Sept. p. 78.  
 Construction differential subsidy; Aug. p. 57, Nov. p. 38.  
 Damaged \_\_\_\_\_, new system to help keep afloat; Jan. p. 36.  
 Definition amendment under \_\_\_\_\_ mortgage insurance procedures; Aug. p. 103.  
 Design:  
   and construction, International Meeting on wooden \_\_\_\_\_; Feb. p. 48.  
   in relation to fish quality improvement, meeting to be held in London on; Apr. p. 88.  
   training course given in Sweden; Oct. p. 62.  
 Documentations issued and cancelled; Jan. p. 49, Apr. p. 39, May p. 44, Aug. p. 55, Sept. p. 47, Oct. p. 57.  
 Ecuador, foreign-built \_\_\_\_\_ and processing equipment sought; Dec. p. 54.  
 Factory trawler acquired by Greek firm from Soviets; Dec. p. 56.  
 Fire extinguishers, certain dry chemical, require pressure gauges; Mar. p. 57.  
 Fisheries Loan Fund, application for purchase of salmon \_\_\_\_\_; Nov. p. 78.  
 Fishery loan program extension requested by Department of the Interior; Apr. p. 92.  
 Fishing Fleet Improvement Act:  
   eligibility requirements, notice of proposed amended; June p. 82.  
   first application under new; Feb. p. 43.  
   hearings on construction differential subsidy applications under; Feb. p. 91, Mar. p. 98, Apr. p. 92, May p. 98, Oct. p. 106, Nov. p. 78.  
 Food and Agriculture Organization 3rd international technical meeting on \_\_\_\_\_; May p. 50, July p. 57, Aug. p. 128, Dec. p. 47.  
 Freezer-trawlers "Pavlovo" and "Priluki" built for Soviets by Danish shipyard; Sept. p. 76.  
 Ghana:  
   stern trawler(s):  
     four more received from Norway; Sept. p. 62.  
     second, received from Japan by; Feb. p. 60.  
   trawler, new Japanese-built, delivered at Tema; May p. 68.  
 Greece:  
   freezer-trawlers, nine additional, to join fleet in 1965; Mar. p. 74.  
   offshore fleet, 1963; Feb. p. 60.



## VESSEL(S) (cont.)

- Handling and transferring fish from \_\_\_\_\_, forks banned in Massachusetts for; May p. 24.  
 Italy, fishing fleet status, 1964; Dec. p. 60.  
 Japan:  
   activities; July p. 80.  
   construction:  
     April-May 1965; July p. 81.  
     steel \_\_\_\_\_, 1960-64; Nov. p. 67.  
     trends in; Aug. p. 84.  
   fleet status in 1963 and construction trends in 1964; May p. 77.  
   licensed for construction, April-June 1965; Dec. p. 71.  
   licenses in effect Dec. 31, 1964; Apr. p. 75.  
   plans large fishery stern-trawler; Sept. p. 69.  
   refueling at sea planned for Atlantic Ocean; Aug. p. 84.  
   tuna:  
     catcher \_\_\_\_\_, new portable; Dec. p. 71.  
     design improvement studies; Feb. p. 65.  
     fleet, plan submitted to stabilize operation and management of; Dec. p. 63.  
     sold to Malaysian firm; Sept. p. 72.  
 Korea, North, Dutch-built fish-factory freezer \_\_\_\_\_ delivered to; Apr. p. 79.  
 Korea, Republic of:  
   fishing fleet being built by French-Italian consortium, progress on; Sept. p. 71.  
   fleet expansion planned; Dec. p. 72.  
   plans to build 572 \_\_\_\_\_; Nov. p. 68.  
   tuna \_\_\_\_\_, new, for training center; Oct. p. 89.  
 Kuwait receives shrimp \_\_\_\_\_ from Norway; Aug. p. 87.  
 Loan fund and other financial aid for U. S. \_\_\_\_\_; Mar. p. 55, May p. 43, Aug. p. 56, Nov. p. 37.  
 Loan requirements revised by U. S.; Oct. p. 104.  
 Malaysian firm purchases tuna \_\_\_\_\_ from Japan; Sept. p. 72.  
 Medical care of commercial \_\_\_\_\_ owner-operators, amendments proposed to regulations for; Jan. p. 98.  
 Mortgage insurance:  
   program; Mar. p. 55, May p. 43, Aug. p. 56, Nov. p. 37.  
   vessel definition amendment proposed under; July p. 101.  
 North Vietnam receives three freezer trawlers from U.S.S.R.; Dec. p. 75.  
 Norway:  
   delivers shrimp \_\_\_\_\_ to Kuwait; Aug. p. 87.  
   export of \_\_\_\_\_ expanded; Aug. p. 91.  
 Owner-operators of commercial \_\_\_\_\_, medical care for; Jan. p. 98, May p. 94.  
 Poland:  
   designs, new \_\_\_\_\_; Aug. p. 92.  
   factory-trawlers:  
     new, launched at Gdansk; Feb. p. 78.  
     freezer trawlers, and cutters to be delivered to domestic fishing groups in 1965; June p. 74.  
   fishing fleet:  
     development and status in 1964; June p. 76.  
     size, 1961-63 and estimates for 1964; Feb. p. 78.  
     Gdynia to build \_\_\_\_\_ for French and British firms; Oct. p. 94.  
 Portugal, construction of \_\_\_\_\_ under new Three-Year Economic Development Plan (1965-67), proposed; Jan. p. 85.  
 Propeller, marine, with protective casing patented; Apr. p. 23.

## VESSEL(S)

- Research:  
 Canada, "E. E. Prince" to be built for Atlantic investigations; Jan. p. 69.  
 "David Starr Jordan" launched, new oceanographic \_\_\_\_\_; Feb. p. 45.  
 Duke University dedicates "Eastward"; July p. 41.  
 fishery \_\_\_\_\_, new, for U. S. Bureau of Commercial Fisheries; Sept. p. 44.  
 game fish resources, new \_\_\_\_\_ "Dolphin" to study coastal; Jan. p. 48.  
 oceanographic \_\_\_\_\_, conference held at University of Miami on; Apr. p. 31.  
 reservoir fishery vessel, new type; Aug. p. 42.  
 submarine used to explore sea floor off Rhode Island; Aug. p. 50.  
 University of Maryland, new \_\_\_\_\_ for; Apr. p. 25.  
 Senegal to receive nine new tuna \_\_\_\_\_ for 1965/66 season; Nov. p. 70.  
 South Africa:  
   fiberglass \_\_\_\_\_ for shoal fishery prove popular; Nov. p. 71.  
   purse-seine \_\_\_\_\_ "Treffer I," new, for pilchard fishery; Jan. p. 88.  
 stern trawlers:  
   new, delivered from foreign shipyards; June p. 78.  
   "Pionier I" and "Pionier II," new; Jan. p. 87.  
   tuna \_\_\_\_\_ "Verkenner I" and "Verkenner II," new; Jan. p. 87.  
 Soviet Bloc, U.S.S.R. to trade large factory trawlers and transports to Bulgaria which in turn will build 300-ton trawlers for Soviets; Aug. p. 68.  
 Spain, fishing fleet expands with the addition of new trawlers in 1964; Oct. p. 97.  
 Subsidy:  
   construction, hearings on applications for; Mar. p. 96.  
   construction regulations adopted; Jan. p. 99.  
 Swordfish long-lining \_\_\_\_\_, "Chilmark Sword" and "Chilmark Voyager," new; Jan. p. 49.  
 Teredo, biological control sought for boat-destroying; Mar. p. 131.  
 Trawlers, shrimp, three U.S.-built operate off South America; May p. 45.  
 U.S.S.R.:  
   contracts with East Germany for new series of large stern trawlers; Oct. p. 97.  
   factoryships:  
     built in West Germany for Soviets; Nov. p. 73.  
     Japan launches new series for Soviets; Apr. p. 86, July p. 94.  
   fishing fleet and catch increase planned during 1966-70; Sept. p. 77.  
   freezer-trawlers delivered to Soviets by Danish shipyard:  
     "Geizer"; July p. 95.  
     "Gletcher"; Nov. p. 73.  
     "Golfstrim"; Mar. p. 93.  
     "Skazochnik Andersen"; Apr. p. 87.  
     "Zapolyarny"; June p. 79.  
     "submarine hydroplane" to observe fishing gear, Soviets develop small; Aug. p. 96.  
     tuna \_\_\_\_\_, ten to be delivered to Senegal; Jan. p. 86.  
 United Kingdom:  
   design recommendations for small \_\_\_\_\_ for stability and economy; Nov. p. 75.  
   freezer-trawler(s):  
     "Cape Kennedy" enters service; May p. 89.  
     fleet of 22 \_\_\_\_\_ for distant-water fisheries planned by mid-1966; Sept. p. 78.

## VESSEL(S) (cont.)

## United Kingdom (cont.):

## freezer-trawler(s) (cont.):

emphasized in distant-water fisheries; Sept. p. 78.

new, "Victory" lands blocks of whole frozen fish; Sept. p. 77.

import surcharge, new, does not apply to certain \_\_\_\_\_; Jan. p. 95.

stern trawler, new semiautomated:

"Ross Dainty" launched; Mar. p. 94, Aug. p. 97.

"Ross Fortune" launched; Aug. p. 96.

subsidy for fishing \_\_\_\_\_ improvement; July p. 95.  
Zanzibar, sardine \_\_\_\_\_ to be delivered by East Germany; Apr. p. 91.

## VESSEL SAFETY

Fire extinguishers, certain dry chemical, require pressure gauges; Mar. p. 57.

## VETERANS ADMINISTRATION

Fishery products requirements during 1965; May p. 18.

## VIETNAM, NORTH

Vessels, fishing fleet expands with Soviet aid; Dec. p. 75.

## VIETNAM, SOUTH

Fisheries aid from Japan; Dec. p. 80.

Fishery trends; Mar. p. 95, July p. 96.

Shrimp exports; Jan. p. 96, July p. 96, Aug. p. 98.

## VIRGINIA

Chesapeake Bay Research Council holds first annual meeting; May p. 16.

Clam, surf, survey conducted off \_\_\_\_\_ by M/V

"Delaware"; Sept. p. 34.

Landings, 1963; Jan. p. 24.

Landings, 1964; Oct. p. 58.

Marine science summer training program for teachers and students; Feb. p. 45, Mar. p. 57.

## Oyster:

MSX studies, \_\_\_\_\_ scientist receives grant for; Dec. p. 44.

seed areas, new, opened in \_\_\_\_\_; May p. 30.

## VIRGINIA INSTITUTE OF MARINE SCIENCE

## Shellfish:

mortality conference, 7th annual, held by \_\_\_\_\_; Apr. p. 36.

research results discussed at meeting of National Shellfish Association; Sept. p. 49.

Training program for teachers and students, \_\_\_\_\_ gets funds to support; Feb. p. 45.

## VIRGIN ISLANDS

Wage order program, revised, for industries in Puerto Rico, \_\_\_\_\_, and American Samoa announced; Mar. p. 100.

## VISIBILITY

Tuna seine net, reducing the \_\_\_\_\_ to increase fishing ability of; Mar. p. 11.

## WAGES

American Samoa, rates, industry, hearings to be held on; July p. 103.

## Japan:

fishermen's \_\_\_\_\_ scale; May p. 79.

fishing union adopts fixed minimum \_\_\_\_\_ system; Jan. p. 79.

## WAGES

Revised \_\_\_\_\_ order program for industries in Puerto Rico, Virgin Islands, and American Samoa announced; Mar. p. 100.

Tuna canning minimum \_\_\_\_\_ rate for Puerto Rico; May p. 98.

## WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS

American Samoa, hearings held on industry wage rates in; July p. 103, Oct. p. 106.

Fish farming entitled to agricultural exemption under Fair Labor Standards Act; Nov. p. 79.

Puerto Rico, wage order for food and related products industry in; May p. 98.

Wage order program, revised, for industries in Puerto Rico, Virgin Islands, and American Samoa announced; Mar. p. 100.

## WASHINGTON

Columbia River flood damage to fish facilities in late 1964; Mar. p. 28.

## Fish:

farming program for salmon evaluated; Oct. p. 58.  
preservation research, grant to University of \_\_\_\_\_ for; Mar. p. 31.

Flood damage to fishery facilities in the Columbia River system, Federal funds allocated to repair; Aug. p. 33.

Herring fishery, test, opened off Whidbey Island; Dec. p. 45.

Laboratory, new Fishery Research, dedicated in Seattle; July p. 44.

Laws, new 1965, affecting fisheries; July p. 52.

Licenses, commercial fishing, new fee schedule for; Oct. p. 59.

## Salmon:

canned, Seattle to have new \$2 million warehouse for; Feb. p. 38.

Columbia River summer fishing season, closure of; Aug. p. 33.

Cowlitz River spawning migration, rock slide interferes with; Mar. p. 57.

farm operated in cooperation with sport fishing club; June p. 36.

net fishing regulations and outlook for Puget Sound in 1965; June p. 36.

returns of fall chinook and silver to lower Columbia River hatcheries in 1964 excellent; Mar. p. 47.

silver (coho) eggs donated by \_\_\_\_\_ for Great Lakes stocking program; Apr. p. 21.

Transportation, "vanships" and "trailerships," special, facilitate handling of fish and other cargo in steamship trade between Alaska and \_\_\_\_\_; May p. 40.

Unemployment insurance costs in the fishing industry; Mar. p. 57.

## WATER CURRENTS

"Sea-bed drifters" aid in studying \_\_\_\_\_; Jan. p. 41.

## WEEDS (see AQUATIC WEEDS)

## WEST AFRICA

Gulf of Guinea current survey by M/V "Geronimo"; Oct. p. 54.

Norwegian fishing off the coast of \_\_\_\_\_; Feb. p. 75.

Sardines, canned, industry outlook; Feb. p. 81.

Shrimp potential of Nigeria's Eastern Gulf of Guinea; Nov. p. 9.

Trawler, stern, Japan to fish new vessel off \_\_\_\_\_; Aug. p. 80.

## WEST AFRICA (cont.)

Tuna:  
Japanese purse-seine fleet off \_\_\_\_\_ reports poor fishing; Mar. p. 78, June p. 58.  
survey in Gulf of Guinea continued by M/V "Gerónimo"; Oct. p. 54.

## WEST EUROPEAN FISHERIES CONFERENCE

Denmark ratifies \_\_\_\_\_ Convention; Mar. p. 73.  
Meeting in The Hague, Sept. 1965; Dec. p. 48.

## WEST PACIFIC FISHERIES COMMISSION

Ninth meeting of \_\_\_\_\_ representing five Asian Communist nations held in Hanoi, Nov. 10, 1964; Dec. p. 75.

## WHALE(S)

California catch, 1964; Feb. p. 46.  
Marking program off Pacific coast; Nov. p. IV.  
Oregon catch, 1964; Feb. p. 46.  
Pacific Coast catch, 1964; Feb. p. 46.

## WHALE MEAT

Japan, Norwegian whaling fleet to purchase \_\_\_\_\_ from; Sept. p. 70.

## WHALE OIL

Antarctic production, 1962/63-1964/65; Oct. p. 65.  
Australian output, 1964; May p. 58.  
Foreign trade trends; Oct. p. 65.  
Japan:  
Antarctic production, 1964/65 season; Aug. p. 85.  
sales agreement for domestic market; Sept. p. 70.  
Norway:  
Antarctic production, 1964/65 and 1963/64; June p. 69.  
stocks for 1963/64 season sold out; Mar. p. 86.  
supply and disposition of \_\_\_\_\_, 1964, with comparisons; June p. 70.  
U.S.S.R., Antarctic production, 1964/65; Aug. p. 95.  
World production:  
and exports, 1960-64 and forecast 1965; Nov. p. 44.  
1961-64 and forecast 1965; Oct. p. 65.  
1960-64 and forecast 1965; Apr. p. 47.

## WHALE, SPERM

Japan, North Pacific study; Sept. p. 70.

## WHALING

Antarctic:  
and North Pacific, Japanese whale oil and meat production, 1963/64 season; Mar. p. 83.  
catch falls short of quota in 1964/65 season; June p. 44.  
conference at Tokyo of active nations proposed; Oct. p. 91.  
expeditions to participate in 1965/66 season; Oct. p. 91.  
international quota cut recommended; July p. 59.  
Japanese:  
fleet preseason operation out of South Georgia Island; Sept. p. 70.  
1964/65 season catch as of Mar. 1, 1965; May p. 80.  
1964/65 trends; May p. 80.  
production target of 1964/65 \_\_\_\_\_ season; Jan. p. 80.  
views on \_\_\_\_\_ developments, 1964/65 season; Jan. p. 60.

## WHALING

Antarctic:  
Japanese:  
views on \_\_\_\_\_ season quota; Apr. p. 74.  
Norway's early results of 1964/65 \_\_\_\_\_ season; Apr. p. 80.  
pressure for reduction in \_\_\_\_\_; Oct. p. 91.  
season for 1964/65 opened Dec. 12, 1964; Mar. p. 66.  
Australia, western, turns to sperm \_\_\_\_\_; Apr. p. 81.  
Five-nation Tokyo conference ends without agreement; Nov. p. 45.  
Global regulation of \_\_\_\_\_ urged by Food and Agriculture Organization; Sept. p. 52.  
International:  
Commission, \_\_\_\_\_, 17th annual meeting held; Sept. p. 53.  
Convention, \_\_\_\_\_, amended; July p. 59.  
Japan:  
Antarctic:  
land stations' oil production as of Jan. 1965; Aug. p. 85.  
fleet for 1965/66 season reduced; Aug. p. 85.  
catch from coastal areas:  
1964; May p. 80.  
1965; Oct. p. 84.  
Chile, Japanese-Chilean venture in; Oct. p. 69.  
North Pacific-Bering Sea:  
operations; Oct. p. 84.  
trends, 1965; Oct. p. 83.  
North Pacific, three fleets sailed in May for; Aug. p. 86.  
Norwegian-Japanese joint \_\_\_\_\_ venture; Oct. p. 85.  
production of whale oil and meat, 1963/64 season; Mar. p. 83.  
to host 5-nation conference; Oct. p. 66.  
vessels licensed to fish off Chile, three more; Apr. p. 65.  
New Zealand, fifty years of \_\_\_\_\_ comes to an end; June p. 66.  
North Pacific:  
Japanese firms, two, conduct 1965 operations jointly; July p. 78.  
U.S.S.R., floating factory-type \_\_\_\_\_ operations; Jan. p. 94.  
U.S.S.R., fleet plans preseason hunting in Antarctic for toothed sperm whales; Jan. p. 94.

## WHALING COMMISSION, INTERNATIONAL

Annual meeting, 17th, held in London; Sept. p. 52.  
Antarctic whale catch quota for 1965/66 season reduced by \_\_\_\_\_; Aug. p. 85.

## WHALING CONFERENCE, INTERNATIONAL

Antarctic international quota cut recommended at special \_\_\_\_\_; July p. 59.

## WHITE HOUSE

Assistant Secretary of the Interior for Fish and Wildlife, new; Apr. p. 93.  
Collisions at Sea, proclamation of new International Regulations for Preventing; Feb. p. 95.  
Trade advisory committee on expanded trade with Soviet Bloc; Apr. p. 94.

## WHITING

New England landings in 1964 and forecast for 1965; Feb. p. 30.

## WILLAMETTE RIVER

Pollution threat to salmon in \_\_\_\_\_ reduced; Oct. p. 51.  
Salmon, chinook, large-scale planting in \_\_\_\_\_; Apr. p. 32.

## WOMEN

Fishery research cruises, \_\_\_\_\_ take part in; Mar. p. 130.

## WOODS HOLE OCEANOGRAPHIC INSTITUTION

Submarine, deep-diving, tested in trial dives by \_\_\_\_\_; Jan. p. 42.

## WORLD

Fish catch tops 50 million tons in 1964; Jan. p. 55.

Fishery trade in 1963; June p. 41.

Fish oil exports, 1964; Aug. p. 61.

Peru's fishery catch in 1963 tops that of all other nations; Jan. p. 83.

## WORLD FISHING EXHIBITION

British hold 1965 \_\_\_\_\_ in London; Sept. p. 79.

## WORLD'S FAIR

Salmon sandwich big hit at New York \_\_\_\_\_; Mar. p. 47.

## YELLOW PERCH

Lake Michigan seasonal distribution and abundance

studies of alewife, chub, and \_\_\_\_\_ continued;

Jan. p. 30, July p. 22.

Michigan proposes change in \_\_\_\_\_ commercial fishing regulations; Dec. p. 32.

## YEMEN

Fisheries:

development assistance from the U.S.S.R.; May p. 90.

trends, 1964; May p. 90.

## YOUTH OPPORTUNITY CAMPAIGN

Fishing industry can help; Aug. p. 58.

## YUGOSLAVIA

Canned fishery products output, 1963 and Jan.-June 1964; Jan. p. 96.

Fish meal and oil imports, 1962-63 and Jan.-June

1964; July p. 97.

Territorial waters extended and control over adjacent Continental Shelf resources, new law proclaimed; Aug. p. 98.

Trout eggs exchanged between \_\_\_\_\_ and U. S.; Oct. p. 17.

Tuna:

Japanese exporters unhappy over \_\_\_\_\_ grading system; June p. 59.

market survey in \_\_\_\_\_ by Japanese, results of; July p. 96.

purse-seiners being built; Apr. p. 91.

vessels being built with aid of foreign know-how; Jan. p. 96.

Tunisia, fishing vessels built by \_\_\_\_\_ for; Apr. p. 90.

## ZAMBIA

United Nations Special Fund, research in fisheries of \_\_\_\_\_ assisted by; Apr. p. 50.

## ZANZIBAR

Vessels, sardine, to be delivered by East Germany; Apr. p. 91.

## ZOOPLANKTON

Food, non-living organic, discovered for \_\_\_\_\_; Apr. p. 29.



Created in 1849, the Department of the Interior—America's Department of Natural Resources—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.



22

91

## FISH AND SHELLFISH - AN IMPORTANT FOOD RESOURCE





